

Appointment

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 3/1/2018 6:39:21 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Muela, Stephen [muela.stephen@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Milam, Karen [Milam.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]
Subject: ELG Planning EPA Weekly Team Meeting
Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting
Location: DCRoomWest6231F/DC-CCW-OST
Start: 3/8/2018 6:00:00 PM
End: 3/8/2018 7:00:00 PM
Show Time As: Busy

Recurrence: Weekly
every Thursday from 1:00 PM to 2:00 PM

Continuing discussion of ELG Planning

Call In : 
Code: 

We will continue to discuss status of projects and the schedule for the next preliminary plan.

Project List:

IWTT
Generic ICR
EGIS
Technology Reviews
HELGA
PFAS Review
Nutrients Review
Engineering Cost Tool
E&EC Detailed Study
Oil and Gas Study
Petroleum Refining Detailed Study
Use of TWFs in ELG Planning
Cost-Effectiveness Review
Economic Screening
Metal Finishing

Appointment

From: Ross, David P [ross.davidp@epa.gov]
Sent: 8/8/2018 2:22:46 PM
To: Ross, David P [ross.davidp@epa.gov]; Forsgren, Lee [Forsgren.Lee@epa.gov]; Best-Wong, Benita [Best-Wong.Benita@epa.gov]; McDonough, Owen [mcdonough.owen@epa.gov]; Wildeman, Anna [wildeman.anna@epa.gov]
CC: Penman, Crystal [Penman.Crystal@epa.gov]; Campbell, Ann [Campbell.Ann@epa.gov]; Nagle, Deborah [Nagle.Deborah@epa.gov]; Wood, Robert [Wood.Robert@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Flanders, Phillip [Flanders.Phillip@epa.gov]; Parikh, Pooja [Parikh.Pooja@epa.gov]; Crawford, Tiffany [Crawford.Tiffany@epa.gov]; Levine, MaryEllen [levine.maryellen@epa.gov]; Neugeboren, Steven [Neugeboren.Steven@epa.gov]

Subject: Preliminary ELG Program Plan 14: Options Selection
Attachments: Flanders--Meeting Request OW Leadership2018-08-02-152054.pdf; PrelimPlan14 Briefing_082118.docx
Location: 3233 WJCE Call in **Personal Phone / Ex. 6**

Start: 8/22/2018 6:00:00 PM
End: 8/22/2018 6:45:00 PM
Show Time As: Busy

Recurrence: (none)

Appointment

From: Nagle, Deborah [Nagle.Deborah@epa.gov]
Sent: 8/6/2018 7:48:51 PM
To: Nagle, Deborah [Nagle.Deborah@epa.gov]; Wood, Robert [Wood.Robert@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Flanders, Phillip [Flanders.Phillip@epa.gov]; Parikh, Pooja [Parikh.Pooja@epa.gov]
CC: Lape, Jeff [lape.jeff@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Feret, Karen (Milam) [Feret.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Crawford, Tiffany [Crawford.Tiffany@epa.gov]; Levine, MaryEllen [levine.maryellen@epa.gov]; Neugeboren, Steven [Neugeboren.Steven@epa.gov]

Subject: Preliminary ELG Program Plan 14: Options Selection
Attachments: PrelimPlan14 Briefing_081518.docx
Location: DCRoomWest5233B/DC-CCW-OST

Start: 8/20/2018 5:00:00 PM
End: 8/20/2018 6:00:00 PM
Show Time As: Busy

Recurrence: (none)

Dial-
Pin:



Appointment

From: Nagle, Deborah [Nagle.Deborah@epa.gov]
Sent: 6/18/2018 4:06:35 PM
To: Nagle, Deborah [Nagle.Deborah@epa.gov]; Lape, Jeff [lape.jeff@epa.gov]; Wood, Robert [Wood.Robert@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Flanders, Phillip [Flanders.Phillip@epa.gov]; Parikh, Pooja [Parikh.Pooja@epa.gov]
CC: Crawford, Tiffany [Crawford.Tiffany@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Milam, Karen [Milam.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]

Subject: Pre-Options Selection Briefing for Preliminary ELG Program Planning Plan 14 - [REDACTED]
Attachments: PrelimPlan14 Briefing_061818.docx [REDACTED]
Location: DCRoomWest5233B/DC-CCW-OST

Start: 6/18/2018 6:00:00 PM
End: 6/18/2018 6:50:00 PM
Show Time As: Busy

Recurrence: (none)

Note Attachment

POC: Philip Flanders
Phone: 202-566-8323

Dial-in [REDACTED]
Passcode [REDACTED]

Appointment

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 3/1/2018 6:39:16 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Muela, Stephen [muela.stephen@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Milam, Karen [Milam.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]
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Cost-Effectiveness Review
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Metal Finishing

Appointment

From: Ross, David P [ross.davidp@epa.gov]
Sent: 1/11/2018 2:12:15 PM
To: Ross, David P [ross.davidp@epa.gov]; Campbell, Ann [Campbell.Ann@epa.gov]; Lape, Jeff [lape.jeff@epa.gov]; Wood, Robert [Wood.Robert@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]; Flanders, Phillip [Flanders.Phillip@epa.gov]; Levine, MaryEllen [levine.maryellen@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]
CC: Best-Wong, Benita [Best-Wong.Benita@epa.gov]; Forsgren, Lee [Forsgren.Lee@epa.gov]; Scozzafava, MichaelE [Scozzafava.MichaelE@epa.gov]; Neugeboren, Steven [Neugeboren.Steven@epa.gov]; Parikh, Pooja [Parikh.Pooja@epa.gov]

Subject: 2016 ELG Program Plan Prebrief
Attachments: Legal Framework for ELGPlan.docx; ELGplanbriefingross11218final v2.pptx
Location: 3233 WJCE

Start: 1/16/2018 3:00:00 PM
End: 1/16/2018 4:00:00 PM
Show Time As: Busy

Recurrence: (none)

Appointment

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 2/11/2019 8:24:25 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Feret, Karen (Milam) [Feret.Karen@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Siddiqui, Ahmar (Siddiqui.Ahmar@epa.gov) [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: ELG Planning Team Catch Up
Location: DCRoomWest6231F/DC-CCW-OST
Start: 2/14/2019 3:30:00 PM
End: 2/14/2019 4:00:00 PM
Show Time As: Busy

Recurrence: (none)

We will use the phone for audio

→ [Join Skype Meeting](#)

[Trouble Joining? Try Skype Web App](#)

Join by phone



Submit to FR for Publication	1 wk	7/15	7/19
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2. Project Status Updates

- a. Generic ICR/EGIS - need to meet to discuss our goals for this year
- b. Cost Tool/Tech Reviews - receiving deliverables from ERG to review
- c. ELG Database
- d. PFAS
- e. Nutrients

3. New Ideas

- a. PSC noncompliance review/Review of discharge concentrations
- b. Unregulated Contaminant Monitoring Rule
- c. Others?

4. What am I asking you to do

- a. For ongoing projects (esp. oil and gas extraction, steam electric) we've left placeholder saying that the updates will be made current as we get close to publication.
- b. If you have any supporting documents to place in the docket with Prelim Plan 14 they need to be c

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From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 8/22/2018 8:40:36 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Lidgard, Michael [Lidgard.Michael@epa.gov]; Smith, DavidW [Smith.DavidW@epa.gov]; Zhang, Qian [Zhang.Qian@epa.gov]; Dunn, John [Dunn.John@epa.gov]; Baskin, Kilty [Baskin.Kilty@epa.gov]; Schweizer, Jonathan [schweizer.jonathan@epa.gov]; Jones, Erica [Jones.Erica@epa.gov]; Trulear, Brian [Trulear.Brian@epa.gov]; Obrien, Karen [obrien.karen@epa.gov]; Pimpare, Justin [Pimpare.Justin@epa.gov]; Chadwick, Dan [Chadwick.Dan@epa.gov]; Wen, Chen [Wen.Chen@epa.gov]; Roberts, Cindy [Roberts.Cindy@epa.gov]; Livnat, Alexander [Livnat.Alexander@epa.gov]; Swanson, Nicholas [Swanson.Nicholas@epa.gov]; Schillo, Bruce [Schillo.Bruce@epa.gov]; Kazior, Kathryn [Kazior.Kathryn@epa.gov]; Pickrel, Jan [Pickrel.Jan@epa.gov]
CC: Green, Margaret [green.margaret@epa.gov]; Shuart, Ryan [shuart.ryan@epa.gov]; R6 6WQ-PO [R6_6WQPO@epa.gov]; Hamilton, Denise [hamilton.denise@epa.gov]

Subject: Pr [REDACTED]

Attachments: Pr [REDACTED]

Location: Co [REDACTED]

Start: 9/5/2018 7:00:00 PM

End: 9/5/2018 8:00:00 PM

Show Time As: Busy

Recurrence: (none)

Call In : 1-202-991-0477

Code: 3863569

ELG Planning Workgroup Members,

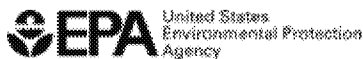
Thank you for your continued dedication to this project. We had our Options Selections meeting with the OW AA (Dave Ross) today (8/22). I would like to keep you all informed about what we are discussing, so I will give the same briefing to you that the AA received. I will also discuss some initial reactions and, if I receive decisions by the time of the call, I will communicate those as well. The briefing covered the suggested content of the next Preliminary ELG Program Plan. Please note that we are simplifying the names of the Plans by using numbers instead of years: this is Preliminary Plan 14. (The Final 2016 Plan was the 13th final plan that we have published. 13 plans in 28 years – not too bad!)

Also, please let me know if the workgroup representative for your office or region has changed.

Thank you,

Phillip Flanders, Ph.D., P.E.

Environmental Engineer
Engineering and Analysis Division
Office of Science and Technology
Office of Water



Mail Code 4303T

(202) 566-8323

www.epa.gov/eg

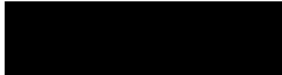
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BCC: DCRoomWest6231F/DC-CCW-OST [DCRoomWest6231F@epa.gov]
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Petroleum Refining Detailed Study
Use of TWFs in ELG Planning
Cost-Effectiveness Review
Economic Screening
Metal Finishing

List of Permits & Fact Sheets Requested from Region 5

1/11/2018

Pulp Mills

NPDES ID
IN0036447
IN0054810
MI0000027
MI0003824
MN0001643
OH0031046
OH0004961
WI0002810
WI0003077

MPP Facilities

NPDES ID
IL0023914
IL0003913
IN0003808
IN0037711
MI0037451
MI0003042
OH0005487
OH0052132

Facility Name	City	State
INTERNATIONAL PAPER	CAYUGA	IN
PAPERWORKS INDUSTRIES, INC.	WABASH	IN
ESCANABA PAPER CO	ESCANABA	MI
OTSEGO PAPER INC	OTSEGO	MI
BOISE WHITE PAPER LLC - INTL FALLS	INTERNATIONAL FALLS	MN
UNITED STATES GYPSUM CO.	GYPSUM	OH
NEWARK GROUP INDUS DBA OHIO PAPERBOARD CORP	BALTIMORE	OH
PACKAGING CORP OF AMERICA	TOMAHAWK	WI
CASCADES TISSUE GROUP - WI, INC.	EAU CLAIRE	WI

Facility Name	City	State
JBS/SWIFT PORK CO	BEARDSTOWN	IL
TYSON FRESH MEATS INC - JOSLIN IL	HILLSDALE	IL
FARBEST FOODS INC.	HUNTINGBURG	IN
FERDINAND PROCESSING	FERDINAND	IN
HILLSHIRE BRANDS-ZEELAND	ZEELAND	MI
CONAGRA FOODS-QUINCY	QUINCY	MI
CASE FARMS	WINESBURG	OH
GERBERS POULTRY INC	APPLE CREEK	OH

Meat and Poultry Facility 2015 DMR Data

NPDES ID
IL0003913
IL0023914
IL0023914
IL0023914
OH0132772
IL0003913
MI0037451
OH0141135
IL0071862
MI0003042
OH0005487
OH0132772
OH0052132
IL0003913
MI0003042
OH0052132
OH0141135
IL0023914
IL0023914
OH0002593
MI0037451
MI0003042
OH0112640
OH0005487
OH0141135
OH0141135
IN0003808
MI0054771
MI0054771
MI0037451
OH0005487
IL0036463
OH0052132
OH0047546
OH0047546
OH0052132
OH0004855
OH0112640
OH0095478
OH0095478
OH0141429
IN0041742
IL0071862
OH0139335
OH0004855
OH0002593
OH0139335
OH0112640
IL0049832

OH0047546
OH0052027
OH0112640
IN0059471
OH0047546
OH0004855
IN0037711

Facility Name	City	State	Major/ Minor	SIC Code
TYSON FRESH MEATS INC - JOSLIN IL	HILLSDALE	IL	M	2011
JBS/SWIFT PORK CO	BEARDSTOWN	IL	N	2011
JBS/SWIFT PORK CO	BEARDSTOWN	IL	N	2011
JBS/SWIFT PORK CO	BEARDSTOWN	IL	N	2011
V. H. COOPER INC.	VAN WERT	OH	N	2015
TYSON FRESH MEATS INC - JOSLIN IL	HILLSDALE	IL	M	2011
HILLSHIRE BRANDS-ZEELAND	ZEELAND	MI	M	2013
WHITEWATER PROCESSING CO	HARRISON	OH	N	2015
SPECTRUM PREFERRED MEATS INC	MOUNT MORRIS	IL	N	2011
CONAGRA FOODS-QUINCY	QUINCY	MI	N	2013
CASE FARMS	WINESBURG	OH	M	2015
V. H. COOPER INC.	VAN WERT	OH	N	2015
GERBERS POULTRY INC	APPLE CREEK	OH	N	2015
TYSON FRESH MEATS INC - JOSLIN IL	HILLSDALE	IL	M	2011
CONAGRA FOODS-QUINCY	QUINCY	MI	N	2013
GERBERS POULTRY INC	APPLE CREEK	OH	N	2015
WHITEWATER PROCESSING CO	HARRISON	OH	N	2015
JBS/SWIFT PORK CO	BEARDSTOWN	IL	N	2011
JBS/SWIFT PORK CO	BEARDSTOWN	IL	N	2011
G. A. WINTZER & SON COMPANY	WAPAKONETA	OH	N	2048
HILLSHIRE BRANDS-ZEELAND	ZEELAND	MI	M	2013
CONAGRA FOODS-QUINCY	QUINCY	MI	N	2013
PROVIMI NORTH AMERICA, INC	LEWISBURG	OH	N	2048
CASE FARMS	WINESBURG	OH	M	2015
WHITEWATER PROCESSING CO	HARRISON	OH	N	2015
WHITEWATER PROCESSING CO	HARRISON	OH	N	2015
FARBEST FOODS INC.	HUNTINGBURG	IN	N	2011
KRUGER COMMODITIES INC	HAMILTON	MI	N	2077
KRUGER COMMODITIES INC	HAMILTON	MI	N	2077
HILLSHIRE BRANDS-ZEELAND	ZEELAND	MI	M	2013
CASE FARMS	WINESBURG	OH	M	2015
PCS PHOSPHATE CO INC	MARSEILLES	IL	N	2048
GERBERS POULTRY INC	APPLE CREEK	OH	N	2015
FINK MEAT CO	SPRINGFIELD	OH	N	2011
FINK MEAT CO	SPRINGFIELD	OH	N	2011
GERBERS POULTRY INC	APPLE CREEK	OH	N	2015
TROYERS TRAIL BOLOGNA INC	DUNDEE	OH	N	2011
PROVIMI NORTH AMERICA, INC	LEWISBURG	OH	N	2048
KALMBACH FEEDS-KALMBACK FEEDS OFFICE BLDG	UPPER SANDUSKY	OH	N	2048
KALMBACH FEEDS-KALMBACK FEEDS OFFICE BLDG	UPPER SANDUSKY	OH	N	2048
THE BUTCHER BLOCK AND SMOKE HOUSE, INC.	VERSAILLES	OH	N	2011
VIN-LEE-RON INC.-TREATMENT PLANT #1	TIPPECANOE	IN	N	2011
SPECTRUM PREFERRED MEATS INC	MOUNT MORRIS	IL	N	2011
MEDINA MEATS	LITCHFIELD	OH	N	2013
TROYERS TRAIL BOLOGNA INC	DUNDEE	OH	N	2011
G. A. WINTZER & SON COMPANY	WAPAKONETA	OH	N	2048
MEDINA MEATS	LITCHFIELD	OH	N	2013
PROVIMI NORTH AMERICA, INC	LEWISBURG	OH	N	2048
DEKALB COUNTY PACKING COMPANY	DEKALB	IL	N	2011

FINK MEAT CO	SPRINGFIELD	OH	N	2011
PRESSLER HOME DRESSED MEATS	AKRON	OH	N	2048
PROVIMI NORTH AMERICA, INC	LEWISBURG	OH	N	2048
INDIANA PACKERS CORPORATION	DELPHI	IN	N	2011
FINK MEAT CO	SPRINGFIELD	OH	N	2011
TROYERS TRAIL BOLOGNA INC	DUNDEE	OH	N	2011
FERDINAND PROCESSING	FERDINAND	IN	N	2011

SIC Description	Pollutant	LBY	Request Permit & Fact Sheet
MEAT PACKING PLANTS	Nitrogen	522,019.3	X
MEAT PACKING PLANTS	Inorganic Nitrogen	440,639.9	X
MEAT PACKING PLANTS	Nitrogen	396,971.4	X
MEAT PACKING PLANTS	Phosphorus	165,679.1	X
POULTRY SLAUGHTERING & PROCESS	Ammonia as N	41,896.5	
MEAT PACKING PLANTS	Phosphorus	21,872.6	X
SAUSAGES & PREPARED MEAT PROD	Nitrogen	20,984.0	X
POULTRY SLAUGHTERING & PROCESS	Inorganic Nitrogen	14,846.8	
MEAT PACKING PLANTS	Nitrogen	14,224.7	
SAUSAGES & PREPARED MEAT PROD	Nitrogen	12,641.8	X
POULTRY SLAUGHTERING & PROCESS	Inorganic Nitrogen	11,173.1	X
POULTRY SLAUGHTERING & PROCESS	Phosphorus	10,167.2	
POULTRY SLAUGHTERING & PROCESS	Nitrogen, nitrate dissolved	8,866.1	X
MEAT PACKING PLANTS	Ammonia as N	8,653.0	X
SAUSAGES & PREPARED MEAT PROD	Ammonia as N	3,598.0	X
POULTRY SLAUGHTERING & PROCESS	Total Kjeldahl Nitrogen	3,473.2	X
POULTRY SLAUGHTERING & PROCESS	Phosphorus	1,956.5	
MEAT PACKING PLANTS	Ammonia as N	1,777.2	X
MEAT PACKING PLANTS	Ammonia as N	1,777.2	X
PREP FEEDS & INGRED FOR ANIMA	Phosphorus	1,663.3	
SAUSAGES & PREPARED MEAT PROD	Phosphorus	1,469.6	X
SAUSAGES & PREPARED MEAT PROD	Phosphorus	1,092.2	X
PREP FEEDS & INGRED FOR ANIMA	Inorganic Nitrogen	663.9	
POULTRY SLAUGHTERING & PROCESS	Phosphorus	660.5	X
POULTRY SLAUGHTERING & PROCESS	Total Kjeldahl Nitrogen	624.7	
POULTRY SLAUGHTERING & PROCESS	Ammonia as N	563.7	
MEAT PACKING PLANTS	Ammonia as N	242.5	X
ANIMAL AND MARINE FATS & OILS	Phosphorus	225.6	
ANIMAL AND MARINE FATS & OILS	Ammonia as N	211.9	
SAUSAGES & PREPARED MEAT PROD	Ammonia as N	185.1	X
POULTRY SLAUGHTERING & PROCESS	Ammonia as N	174.4	X
PREP FEEDS & INGRED FOR ANIMA	Phosphorus	171.7	
POULTRY SLAUGHTERING & PROCESS	Ammonia as N	127.8	X
MEAT PACKING PLANTS	Phosphorus	119.4	
MEAT PACKING PLANTS	Inorganic Nitrogen	119.1	
POULTRY SLAUGHTERING & PROCESS	Phosphorus	94.5	X
MEAT PACKING PLANTS	Inorganic Nitrogen	83.3	
PREP FEEDS & INGRED FOR ANIMA	Phosphorus	61.5	
PREP FEEDS & INGRED FOR ANIMA	Ammonia as N	57.1	
PREP FEEDS & INGRED FOR ANIMA	Phosphorus	50.2	
MEAT PACKING PLANTS	Ammonia as N	46.0	
MEAT PACKING PLANTS	Ammonia as N	45.7	
MEAT PACKING PLANTS	Ammonia as N	28.2	
SAUSAGES & PREPARED MEAT PROD	Ammonia as N	8.6	
MEAT PACKING PLANTS	Phosphorus	6.0	
PREP FEEDS & INGRED FOR ANIMA	Ammonia as N	5.8	
SAUSAGES & PREPARED MEAT PROD	Phosphorus	5.0	
PREP FEEDS & INGRED FOR ANIMA	Total Kjeldahl Nitrogen	4.2	
MEAT PACKING PLANTS	Ammonia as N	4.2	

MEAT PACKING PLANTS	Total Kjeldahl Nitrogen	3.7	
PREP FEEDS & INGRED FOR ANIMA	Ammonia as N	1.6	
PREP FEEDS & INGRED FOR ANIMA	Ammonia as N	1.2	
MEAT PACKING PLANTS	Phosphorus	0.4	
MEAT PACKING PLANTS	Ammonia as N	0.3	
MEAT PACKING PLANTS	Ammonia as N	0.3	
MEAT PACKING PLANTS	Ammonia as N	0.020	X

Pulp Mill 2015 DMR Data

NPDES ID	Facility Name
WI0002810	PACKAGING CORP OF AMERICA
MN0001643	BOISE WHITE PAPER LLC - INTL FALLS
MI0000027	ESCANABA PAPER CO
MN0001643	BOISE WHITE PAPER LLC - INTL FALLS
WI0002810	PACKAGING CORP OF AMERICA
WI0000825	EXPERA SPECIALTY SOLUTIONS, LLC THILMANY MILL
MI0042170	VERSO QUINNESEC, LLC
WI0037991	STORA ENSO NORTH AMERICA WATER QUALITY CENTER
WI0000825	EXPERA SPECIALTY SOLUTIONS, LLC THILMANY MILL
WI0003620	DOMTAR - NEKOOSA
MI0000027	ESCANABA PAPER CO
OH0004235	WESTROCK CP LLC
WI0002810	PACKAGING CORP OF AMERICA
MI0003166	ZELLAR MPI EQUIPMENT
MI0042170	VERSO QUINNESEC, LLC
WI0003204	CELLU TISSUE - CITYFOREST LLC
WI0003077	CASCADES TISSUE GROUP - WI, INC.
WI0000990	APPLETON COATED LLC, COMBINED LOCKS MILL
WI0026042	DOMTAR PAPER CO LLC
MI0001171	PCA-FILER CITY MILL
WI0037389	SCA TISSUE MENASHA PAPER MILL
WI0003026	WAUSAU PAPER MILLS LLC
WI0000990	APPLETON COATED LLC, COMBINED LOCKS MILL
WI0003212	FLAMBEAU RIVER PAPERS LLC
IN0036447	INTERNATIONAL PAPER
MI0003824	OTSEGO PAPER INC
WI0003671	EXPERA SPECIALTY SOLUTIONS, LLC-MOSINEE
OH0031046	UNITED STATES GYPSUM CO.
MI0053601	FIBREK
OH0105228	WAUSAU PAPER TOWEL & TISSUE LLC
WI0003204	CELLU TISSUE - CITYFOREST LLC
WI0003468	NEWPAGE WISCONSIN SYSTEMS INC
MI0003824	OTSEGO PAPER INC
WI0003077	CASCADES TISSUE GROUP - WI, INC.
WI0001261	GEORGIA-PACIFIC CONSUMER PRODUCTS LP
OH0004235	WESTROCK CP LLC
WI0000531	ST PAPER, LLC
IN0054810	PAPERWORKS INDUSTRIES, INC.
WI0003611	NEENAH PAPER INC WHITING MILL
IN0036447	INTERNATIONAL PAPER
OH0105228	WAUSAU PAPER TOWEL & TISSUE LLC
MI0002160	E.B. EDDY PAPER INC.
WI0000680	CELLU TISSUE NEENAH
OH0031046	UNITED STATES GYPSUM CO.
MI0000060	CLEARWATER PAPER-MENOMINEE
MI0003093	FRENCH PAPER CO
WI0037842	NEENAH PAPER, INC.
MI0029386	ROCK-TENN CO
WI0001031	PROCTER & GAMBLE PAPER PRODUCTS - FOX RIVER PLANT

WI0001341	LITTLE RAPIDS CORP - SHAWANO SPECIALTY PAPERS
OH0031046	UNITED STATES GYPSUM CO.
OH0004961	NEWARK GROUP INDUS DBA OHIO PAPERBOARD CORP

City	State	Major/ Minor	SIC Code	SIC Description	Pollutant	LBY
TOMAHAWK	WI	M	2611	PULP MILLS	Total Kjeldahl Nitrogen	185,576
INTERNATIONAL FALLS	MN	M	2611	PULP MILLS	Ammonia as N	176,029
ESCANABA	MI	M	2611	PULP MILLS	Ammonia as N	118,864
INTERNATIONAL FALLS	MN	M	2611	PULP MILLS	Phosphorus	93,431
TOMAHAWK	WI	M	2611	PULP MILLS	Phosphorus	67,262
KAUKAUNA	WI	M	2611	PULP MILLS	Ammonia as N	57,734
QUINNESEC	MI	M	2611	PULP MILLS	Phosphorus	44,839
WISCONSIN RAPIDS	WI	M	2611	PULP MILLS	Phosphorus	35,928
KAUKAUNA	WI	M	2611	PULP MILLS	Phosphorus	25,798
NEKOOSA	WI	M	2611	PULP MILLS	Phosphorus	25,517
ESCANABA	MI	M	2611	PULP MILLS	Phosphorus	24,677
COSHOCTON	OH	M	2631	PAPERBOARD MILLS	Phosphorus	23,588
TOMAHAWK	WI	M	2611	PULP MILLS	Ammonia as N	22,609
MANISTIQUE	MI	M	2621	PAPER MILLS	Phosphorus	16,959
QUINNESEC	MI	M	2611	PULP MILLS	Ammonia as N	14,730
LADYSMITH	WI	M	2611	PULP MILLS	Ammonia as N	12,953
EAU CLAIRE	WI	M	2611	PULP MILLS	Ammonia as N	11,986
COMBINED LOCKS	WI	M	2611	PULP MILLS	Phosphorus	11,529
ROTHSCHILD	WI	M	2621	PAPER MILLS	Phosphorus	10,942
FILER CITY	MI	M	2631	PAPERBOARD MILLS	Phosphorus	10,589
MENASHA	WI	M	2621	PAPER MILLS	Phosphorus	8,795
RHINELANDER	WI	M	2611	PULP MILLS	Phosphorus	8,322
COMBINED LOCKS	WI	M	2611	PULP MILLS	Ammonia as N	7,537
PARK FALLS	WI	M	2621	PAPER MILLS	Phosphorus	5,958
CAYUGA	IN	M	2631	PAPERBOARD MILLS	Ammonia as N	5,884
OTSEGO	MI	M	2631	PAPERBOARD MILLS	Phosphorus	5,560
MOSINEE	WI	M	2611	PULP MILLS	Phosphorus	5,091
GYPSUM	OH	N	2631	PAPERBOARD MILLS	Phosphorus	4,729
MENOMINEE	MI	M	2611	PULP MILLS	Phosphorus	4,418
MIDDLETOWN	OH	M	2621	PAPER MILLS	Phosphorus	3,959
LADYSMITH	WI	M	2611	PULP MILLS	Phosphorus	3,504
STEVENS POINT	WI	M	2621	PAPER MILLS	Phosphorus	3,324
OTSEGO	MI	M	2631	PAPERBOARD MILLS	Ammonia as N	2,570
EAU CLAIRE	WI	M	2611	PULP MILLS	Phosphorus	2,120
GREEN BAY	WI	M	2621	PAPER MILLS	Phosphorus	1,743
COSHOCTON	OH	M	2631	PAPERBOARD MILLS	Ammonia as N	1,619
OCONTO FALLS	WI	M	2611	PULP MILLS	Phosphorus	1,552
WABASH	IN	N	2611	PULP MILLS	Phosphorus	1,408
STEVENS POINT	WI	M	2611	PULP MILLS	Phosphorus	1,310
CAYUGA	IN	M	2631	PAPERBOARD MILLS	Phosphorus	1,306
MIDDLETOWN	OH	M	2621	PAPER MILLS	Ammonia as N	1,186
PORT HURON	MI	M	2621	PAPER MILLS	Phosphorus	986
MENASHA	WI	M	2621	PAPER MILLS	Phosphorus	807
GYPSUM	OH	N	2631	PAPERBOARD MILLS	Ammonia as N	793
MENOMINEE	MI	M	2621	PAPER MILLS	Phosphorus	782
NILES	MI	M	2621	PAPER MILLS	Phosphorus	645
NEENAH	WI	M	2621	PAPER MILLS	Phosphorus	619
BATTLE CREEK	MI	N	2631	PAPERBOARD MILLS	Phosphorus	548
GREEN BAY	WI	M	2621	PAPER MILLS	Phosphorus	451

SHAWANO	WI	M	2621	PAPER MILLS	Phosphorus	322
GYP SUM	OH	N	2631	PAPERBOARD MILLS	Nitrogen, nitrate dissolved	227
BALTIMORE	OH	M	2631	PAPERBOARD MILLS	Ammonia as N	91

Request Permit & Fact Sheet
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X

X
X

List of Permits & Fact Sheets to Request from Region 1

States in Region 1: CT, ME, MA, NH, RI, and VT

Pulp Mills (no pulp mills with DMR nutrient data >0 for RI or VT)

NPDES ID
CT0002127
CT0000434
ME0000159
ME0002054
MA0005011
MA0004561
NH0000230
NH0000655

No MPP facilities in Region 1 states that have DMR nutrient data >0.

Facility Name	City	State
CLEARWATER PAPER	EAST HARTFORD	CT
AHLSTROM NONWOVENS	WINDSOR LOCKS	CT
TWIN RIVERS PAPER MILL	MADAWASKA	ME
RUMFORD PAPER COMPANY	RUMFORD	ME
PAPERLOGIC TURNERS FALLS MILL	MONTAGUE (TURNERS FALLS)	MA
HOLLINGSWORTH & VOSE ADVANCED MATERIALS	GROTON	MA
MONADNOCK PAPER MILLS	BENNINGTON	NH
GORHAM PAPER & TISSUE	GORHAM	NH

Have 2015 Permit Application and FS, request final permit and any updates since 2015.
Have 2012 Permit Application and FS, request final permit and any updates since 2012.
Have 2007 Permit, request any updated permit.
Have 2011 Permit, request any updated permit.

List of Permits & Fact Sheets to Request from Region 4

States in Region 4: AL, FL, GA, KY, MS, NC, SC, and TN

Pulp Mills

NPDES ID
AL0003930
AL0002682
FL0001104
FL0000400
GA0003654
GA0046426
KY0094463
MS0000191
MS0000795
NC0003298
NC0000272
SC0049115
SC0000868
TN0002763
TN0002356

MPP Facilities

NPDES ID
AL0082309
AL0002241
AL0040843
FL0001465
GA0002844
GA0001074
KY0100102
KY0107280
MS0045021
MS0046931
NC0028835
NC0072575
SC0000795
TN0002135
TN0073563

Facility Name	City	State
NGC INTERNATIONAL INC	OXFORD	AL
GEORGIA-PACIFIC BREWTON LLC	BREWTON	AL
WESTROCK - FERNANDINA BEACH MILL	FERNANDINA BEACH	FL
WESTROCK CP, LLC	JACKSONVILLE	FL
GP CELLULOSE	BRUNSWICK	GA
HOLLINGSWORTH & VOSE CO	HAWKINSVILLE	GA
TEMPLE-INLAND	MAYSVILLE	KY
INTERNATIONAL PAPER - VICKSBURG MILL	REDWOOD	MS
BURROWS PAPER CORPORATION	PICKENS	MS
INTERNATIONAL PAPER COMPANY	RIEGELWOOD	NC
BLUE RIDGE PAPER PRODUCTS INC (DBA EVERGREEN PACKAGING)	CANTON	NC
SHAW INDUSTRIES GROUP INC PLANT 8N	ANDERSON	SC
INTERNATIONAL PAPER GEORGETOWN MILL	GEORGETOWN	SC
HOOD CONTAINER	WAVERLY	TN
RESOLUTE FB US, INC.	CALHOUN	TN

Facility Name	City	State
KOCH FOODS OF ALABAMA	MONTGOMERY	AL
JCG FOODS OF ALABAMA	COLLINSVILLE	AL
AMERICAN PROTEINS INCORPORATED HANCEVILLE DIVISION	HANCEVILLE	AL
PILGRIM'S PRIDE PROCESSING PLANT	LIVE OAK	FL
PERDUE FOODS LLC, PERRY GA	PERRY	GA
TYSON FOODS INC	CUMMING	GA
PERDUE CROMWELL PROCESSING PLANT	BEAVER DAM	KY
DARLING INGREDIENTS INC	RUSSELLVILLE	KY
SANDERSON FARMS INC	SUMMIT	MS
FOREST MS CENTRAL INDUSTRIES, INC., DBA RFAF	FOREST	MS
VALLEY PROTEINS PROCESSING PLANT	LEWISTON WOODVILLE	NC
PILGRIM'S PRIDE - SANFORD PROCESSING PLANT	SANFORD	NC
PILGRIM'S PRIDE PROCESSING PLANT	SUMTER	SC
TYSON FOODS INC - PROCESSING	SHELBYVILLE	TN
TYSON FOODS, INC.	UNION CITY	TN

Have 2014 permit, ask for any updated permit or FS.

List of Permits & Fact Sheets to Request from Region 5

States in Region 5: IL, IN, MI, MN, OH, and WI

Pulp Mills (no pulp mills with DMR nutrient data >0 for IL)

NPDES ID
IN0036447
IN0054810
MI0000027
MI0003824
MN0001643
OH0031046
OH0004961
WI0002810
WI0003077

MPP Facilities (no MPP facilities with DMR nutrient data >0 for MN or WI)

NPDES ID
IL0023914
IL0003913
IN0003808
IN0037711
MI0037451
MI0003042
OH0005487
OH0052132

Facility Name	City	State
INTERNATIONAL PAPER	CAYUGA	IN
PAPERWORKS INDUSTRIES, INC.	WABASH	IN
ESCANABA PAPER CO	ESCANABA	MI
OTSEGO PAPER INC	OTSEGO	MI
BOISE WHITE PAPER LLC - INTL FALLS	INTERNATIONAL FALLS	MN
UNITED STATES GYPSUM CO.	GYPSUM	OH
NEWARK GROUP INDUS DBA OHIO PAPERBOARD CORP	BALTIMORE	OH
PACKAGING CORP OF AMERICA	TOMAHAWK	WI
CASCADES TISSUE GROUP - WI, INC.	EAU CLAIRE	WI

Facility Name	City	State
JBS/SWIFT PORK CO	BEARDSTOWN	IL
TYSON FRESH MEATS INC - JOSLIN IL	HILLSDALE	IL
FARBEST FOODS INC.	HUNTINGBURG	IN
FERDINAND PROCESSING	FERDINAND	IN
HILLSHIRE BRANDS-ZEELAND	ZEELAND	MI
CONAGRA FOODS-QUINCY	QUINCY	MI
CASE FARMS	WINESBURG	OH
GERBERS POULTRY INC	APPLE CREEK	OH

Message

From: Whitlock, Steve [Whitlock.Steve@epa.gov]
Sent: 3/22/2019 5:12:42 PM
To: Lewis, Samantha [Lewis.Samantha@epa.gov]
Subject: MPP data files
Attachments: MPP and Pulp TRI Contacts_081717.xlsx; MPP_TRI & DMR Data_120817.xlsx

Flag: Flag for follow up

I've attached some of the data we've reviewed for the MPP category review.

--Steve--

Message

From: Whitlock, Steve [Whitlock.Steve@epa.gov]
Sent: 3/19/2019 1:15:20 PM
To: Lewis, Samantha [Lewis.Samantha@epa.gov]
Subject: Attached Nutrients supporting document
Attachments: Draft Nutrients Report_102618_sw_comments.docx

Flag: Flag for follow up

Samantha,

I've attached the draft nutrient support document that has more details than the 304(m) Plan report. We should be getting a revised version from ERG soon, but there are not many changes from this version.

--Steve--

Message

From: Damico, Brian [Damico.Brian@epa.gov]
Sent: 3/13/2019 5:24:44 PM
To: Lewis, Samantha [Lewis.Samantha@epa.gov]
Subject: nutrients write up
Attachments: Draft Prelim Plan 14 2019.03.11.docx

Flag: Follow up

Brian D'Amico
Chief, Technology and Analytical Support Branch
Engineering and Analysis Division
Office of Science and Technology
U.S. Environmental Protection Agency
Washington, DC
(202) 566-1069 (Office)
(202) 384-2190 (EPA Cell)

Appointment

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 7/17/2018 7:43:56 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Muela, Stephen [muela.stephen@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Milam, Karen [Milam.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]

Subject: ELG Planning EPA Weekly Team Meeting
Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment
Location: DCRoomWest6231F/DC-CCW-OST

Start: 3/8/2018 6:00:00 PM
End: 3/8/2018 7:00:00 PM
Show Time As: Tentative

Recurrence: Weekly
Occurs every Thursday from 1:00 PM to 2:00 PM effective 3/8/2018 until 6/21/2018.

Continuing discussion of ELG Planning

Call In
Code:

We will continue to discuss status of projects and the schedule for the next preliminary plan.

Project List:

IWTT
Generic ICR
EGIS
Technology Reviews
HELGA
PFAS Review
Nutrients Review
Engineering Cost Tool
E&EC Detailed Study
Oil and Gas Study
Petroleum Refining Detailed Study
Use of TWFs in ELG Planning
Cost-Effectiveness Review
Economic Screening
Metal Finishing

Message

From: Elizabeth Gentile [Elizabeth.Gentile@erg.com]
Sent: 12/19/2017 6:49:59 PM
To: Hesterlee, Craig [Hesterlee.Craig@epa.gov]; Davis, Molly [Davis.Molly@epa.gov]
CC: Apanian, David M. [Apanian.David@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: Questions on Region 4 Meat and Poultry and Pulp Facilities

Hi Craig:

Yes, we have a list of the MPP facilities we were hoping to get permit and fact sheets for (see below). We have already done a pretty extensive review of the nutrient discharges for both MPP and Pulp in the DMR pollutant loading tool. I think the types of information we are more interested in discussing include operations that contribute to the nutrient discharges, treatment technologies/BMPs at these facilities, and permit limit development (specific to nutrients). I'm not sure how much you might be able to elaborate on those topics, but we are certainly interested in learning as much as we can about how nutrients are handled at these facilities.

Thanks,
Elizabeth

NPDES ID
AL0082309
AL0002241
AL0040843
FL0001465
GA0002844
GA0001074
KY0100102
KY0107280
MS0045021
MS0046931
NC0028835
NC0072575
SC0000795
TN0002135
TN0073563

From: Hesterlee, Craig [mailto:Hesterlee.Craig@epa.gov]
Sent: Tuesday, December 19, 2017 1:22 PM
To: Davis, Molly <Davis.Molly@epa.gov>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>
Cc: Apanian, David M. <Apanian.David@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>
Subject: RE: Questions on Region 4 Meat and Poultry and Pulp Facilities

Elizabeth- do you have a similar list for the meat and poultry industry? We are preparing to pull ICIS data to summarize nutrient loads and concentrations from our larger dischargers. I can use DMR loading tool as well. We have about 160 SIC "20" animal processors with monitoring data in ICIS for phosphorus as well as about 200 SIC "20" animal processors

with monitoring data for nitrogen. If you have identified a subset of interest we can assist with getting copies of those permits to you.

Craig Hesterlee
EPA Region 4 Water Protection Division
Environmental Engineer – POTW Sector
NPDES Permitting Section
404-562-9749

From: Davis, Molly
Sent: Tuesday, December 19, 2017 1:15 PM
To: Hesterlee, Craig <Hesterlee.Craig@epa.gov>
Subject: FW: Questions on Region 4 Meat and Poultry and Pulp Facilities

FYI...

From: Shell, Karrie-Jo
Sent: Tuesday, December 19, 2017 12:44 PM
To: Elizabeth Gentile <elizabeth.gentile@erg.com>; Davis, Molly <Davis.Molly@epa.gov>
Cc: Whitlock, Steve <Whitlock.Steve@epa.gov>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Seiwert, Carla <Seiwert.Carla@epa.gov>
Subject: RE: Questions on Region 4 Meat and Poultry and Pulp Facilities

Ok. I will bring this topic up on our next call with the states.

Karrie-Jo Robinson-Shell, P.E.
Environmental Engineer
US EPA Region 4
Water Protection Division
61 Forsyth Street
Atlanta, GA 30303
(404) 562-9308

From: Elizabeth Gentile [<mailto:Elizabeth.Gentile@erg.com>]
Sent: Tuesday, December 19, 2017 11:57 AM
To: Shell, Karrie-Jo <Shell.Karrie-Jo@epa.gov>; Davis, Molly <Davis.Molly@epa.gov>
Cc: Whitlock, Steve <Whitlock.Steve@epa.gov>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Seiwert, Carla <Seiwert.Carla@epa.gov>
Subject: RE: Questions on Region 4 Meat and Poultry and Pulp Facilities

Karrie-Jo:

Thank you for getting back to me. We are hoping to discuss nitrogen and phosphorus discharges for the pulp mills (discharges over the last 5 years works great). We'd also like to specifically talk about how nutrient addition to the treatment system may be impacting discharges and if any mills are using tertiary treatment to meet any nutrient permit limits. If you have the permits available, we were also hoping to get copies of the following permits and fact sheets:

NPDES ID
AL0003930
AL0002682

FL0001104
FL0000400
GA0003654
GA0046426
KY0094463
MS0000191
MS0000795
NC0003298
NC0000272
SC0049115
SC0000868
TN0002763
TN0002356

This list of permits was pulled based on loadings and discharges to impaired waters, but if you have other examples to look at that would be great. We'd also be interested in learning about different types of treatment at the different types of mills you listed if that information is available.

Please let me know when would be a good time to schedule a quick call.

Thanks,
Elizabeth

From: Shell, Karrie-Jo [<mailto:Shell.Karrie-Jo@epa.gov>]

Sent: Tuesday, December 19, 2017 9:26 AM

To: Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Davis, Molly <Davis.Molly@epa.gov>

Cc: Whitlock, Steve <Whitlock.Steve@epa.gov>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Seiwert, Carla <Seiwert.Carla@epa.gov>

Subject: RE: Questions on Region 4 Meat and Poultry and Pulp Facilities

Elizabeth,

I am the lead for pulp and paper NPDES permits in R4. Please send me a list of the nutrient parameters you are interested in, as well as a timeframe (i.e., past 5 years). I can compile an Excel spreadsheet for discussion purposes. I will also get examples for permits from the following categories:

Dissolving Kraft
Dissolving Sulfite
Bleached Kraft
Unbleached Kraft
Deink

I also think we still have a thermo-mechanical mill in our region.

Karrie-Jo Robinson-Shell, P.E.
Environmental Engineer
US EPA Region 4
Water Protection Division
61 Forsyth Street
Atlanta, GA 30303

(404) 562-9308

From: Elizabeth Gentile [<mailto:Elizabeth.Gentile@erg.com>]
Sent: Tuesday, December 19, 2017 9:14 AM
To: Davis, Molly <Davis.Molly@epa.gov>; Shell, Karrie-Jo <Shell.Karrie-Jo@epa.gov>
Cc: Whitlock, Steve <Whitlock.Steve@epa.gov>; Kimberly Bartell <Kimberly.Bartell@erg.com>
Subject: Questions on Region 4 Meat and Poultry and Pulp Facilities

Ms. Davis:

Eastern Research Group, Inc. (ERG), a contractor for EPA Office of Water, Engineering and Analysis Division (EAD), is e-mailing you to request information on meat and poultry and pulp and paper facilities in your region. See below for further background.

Specifically, ERG is working with Phillip Flanders and Steve Whitlock of EAD to conduct its annual review of the existing effluent limitations guidelines, as required by the Clean Water Act. The purpose of the annual review is to gather information on current discharges from various industry categories to determine whether or not revisions to or development of effluent guidelines may be appropriate. EAD will discuss this review and the results in its Preliminary 2018 Effluent Guidelines Program Plan, scheduled for publication in the Federal Register in 2018 (see <https://www.epa.gov/eg> for further information).

To support the review of existing effluent guidelines, we are gathering information on nutrient discharges from meat and poultry and pulp and paper facilities. We would like to discuss nutrient discharges from these industries as well as request copies of NPDES permits and fact sheets for a few facilities. Please let us know your availability to set up a short call to discuss this information.

If you have any questions in the meantime, please call me at 484-364-4481. If you would like to speak directly with EAD regarding this request, you can contact Steve Whitlock by phone at (202) 566-1541 or by email: whitlock.steve@epa.gov.

Thank you,
Elizabeth

Elizabeth A. Gentile
Environmental Engineer
Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
elizabeth.gentile@erg.com
Phone: 484-364-4481

Message

From: Elizabeth Gentile [Elizabeth.Gentile@erg.com]
Sent: 2/12/2018 9:20:42 PM
To: Arsenault, Dan [Arsenault.Dan@epa.gov]
CC: Webster, David [Webster.David@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Kimberly Bartell [Kimberly.Bartell@erg.com]
Subject: RE: MPP and Pulp - EAD Request

Thank you, Dan! We will start reviewing all of the permit information here on our end.

Elizabeth

Elizabeth A. Gentile
Environmental Engineer
Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
elizabeth.gentile@erg.com
Phone: 484-364-4481

From: Arsenault, Dan [mailto:Arseault.Dan@epa.gov]
Sent: Monday, February 12, 2018 3:34 PM
To: Elizabeth Gentile <Elizabeth.Gentile@erg.com>
Cc: Webster, David <Webster.David@epa.gov>
Subject: RE: MPP and Pulp - EAD Request

Hi Elizabeth:

And here is the permit for CT0002127.

Thanks,

Dan

From: Elizabeth Gentile [mailto:Elizabeth.Gentile@erg.com]
Sent: Friday, January 26, 2018 12:18 PM
To: Arsenault, Dan <Arseault.Dan@epa.gov>
Cc: Elizabeth Gentile <elizabeth.gentile@erg.com>
Subject: MPP and Pulp - EAD Request

Good afternoon, Dan-

I am sorry for the delay in getting back to you, I've been on work travel this past week. As discussed in my original email to Mr. Corb, we are gathering information on nutrient discharges from meat and poultry and pulp and paper facilities. We would like to discuss nutrient discharges from these industries as well as request copies of NPDES permits and fact sheets for a few facilities. I've attached the list of mills we are looking into, but I'd also like to see if you're able to set up a short call to discuss some big picture questions on both industries we are hoping to answer. I am free any time on Monday between 10:30-1, or Wednesday morning until 11:00 and after 2:30.

Thank you!
Elizabeth

Elizabeth A. Gentile
Environmental Engineer
Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
elizabeth.gentile@erg.com
Phone: 484-364-4481

Message

From: Wood, Robert [Wood.Robert@epa.gov]
Sent: 1/12/2018 4:05:00 PM
To: Matuszko, Jan [Matuszko.Jan@epa.gov]
Subject: RE: Draft ELG Plan Briefing for Dave Ross
Attachments: ELGplanbriefinggrossdraft1118 RKW.PPTX

This looks very good. Attached includes a number of edits (let me know if you disagree with any) and an additional appendix (PGCC and API letters)

Robert Wood, Director
Engineering and Analysis Division
U.S. EPA Office of Water
202-566-1822

From: Matuszko, Jan
Sent: Thursday, January 11, 2018 5:37 PM
To: Wood, Robert <Wood.Robert@epa.gov>
Subject: Fwd: Draft ELG Plan Briefing for Dave Ross

I am sure you know this but...need your review ASAP. I will be interested to get your feedback.

Sent from my iPhone

Begin forwarded message:

From: "Matuszko, Jan" <Matuszko.Jan@epa.gov>
Date: January 11, 2018 at 3:49:15 PM EST
To: "Wood, Robert" <Wood.Robert@epa.gov>
Cc: "Flanders, Phillip" <Flanders.Phillip@epa.gov>, "Scozzafava, MichaelE" <Scozzafava.MichaelE@epa.gov>
Subject: Draft ELG Plan Briefing for Dave Ross

Didn't QA/QC it, but here you go.

Jan Matuszko
Chief, Engineering and Analytical Support Branch
Office of Water
Environmental Protection Agency
(202) 566-1035

Message

From: Damico, Brian [Damico.Brian@epa.gov]
Sent: 1/12/2018 6:27:46 PM
To: Matuszko, Jan [Matuszko.Jan@epa.gov]
Subject: FW: ELG Plan Briefing
Attachments: Legal Framework for ELGPlan.docx; ELGplanbriefingross11218final v2.PPTX

Oops forgot to cc you. I just copied the To and CC line of your e-mail and forgot about the sender...

Brian D'Amico
Chief, Technology and Analytical Support Branch
Engineering and Analysis Division
Office of Science and Technology
U.S. Environmental Protection Agency
Washington, DC
(202) 566-1069 (Office)
(202) 384-2190 (EPA Cell)

From: Damico, Brian
Sent: Friday, January 12, 2018 1:05 PM
To: Robert Wood (Wood.Robert@epa.gov) <Wood.Robert@epa.gov>; MichaelE Scozzafava (Scozzafava.MichaelE@epa.gov) <Scozzafava.MichaelE@epa.gov>; Campbell, Ann <Campbell.Ann@epa.gov>; Flanders, Phillip <Flanders.Phillip@epa.gov>
Subject: FW: ELG Plan Briefing

Good afternoon all,

Attached is the revised slide deck, as well as the unchanged Legal Framework document for your convenience.

Ann, I will be running 4 hard copies of each of these documents to you shortly.

-B

Brian D'Amico
Chief, Technology and Analytical Support Branch
Engineering and Analysis Division
Office of Science and Technology
U.S. Environmental Protection Agency
Washington, DC
(202) 566-1069 (Office)
(202) 384-2190 (EPA Cell)

From: Matuszko, Jan
Sent: Friday, January 12, 2018 12:58 PM
To: Damico, Brian <Damico.Brian@epa.gov>
Subject: Fw: ELG Plan Briefing

From: Matuszko, Jan
Sent: Friday, January 12, 2018 12:53 PM
To: Campbell, Ann
Cc: Wood, Robert; Scozzafava, MichaelE; Flanders, Phillip
Subject: ELG Plan Briefing

Here you go. Trying to make your 1pm deadline. Do you need someone to bring you hard copies as well.

Message

From: Matuszko, Jan [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=94EEFC2788084D73A97CAF80D30A0E24-JMATUSZK]
Sent: 1/11/2018 10:37:17 PM
To: Wood, Robert [Wood.Robert@epa.gov]
Subject: Fwd: Draft ELG Plan Briefing for Dave Ross
Attachments: ELGplanbriefinggrossdraft1118.PPTX; ATT00001.htm

I am sure you know this but...need your review ASAP. I will be interested to get your feedback.

Sent from my iPhone

Begin forwarded message:

From: "Matuszko, Jan" <Matuszko.Jan@epa.gov>
Date: January 11, 2018 at 3:49:15 PM EST
To: "Wood, Robert" <Wood.Robert@epa.gov>
Cc: "Flanders, Phillip" <Flanders.Phillip@epa.gov>, "Scozzafava, MichaelE" <Scozzafava.MichaelE@epa.gov>
Subject: Draft ELG Plan Briefing for Dave Ross

Didn't QA/QC it, but here you go.

Jan Matuszko
Chief, Engineering and Analytical Support Branch
Office of Water
Environmental Protection Agency
(202) 566-1035

Message

From: Matuszko, Jan [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=94EEFC2788084D73A97CAF80D30A0E24-JMATUSZK]
Sent: 1/16/2018 1:48:49 PM
To: Brawner, Harvette [Brawner.Harvette@epa.gov]
CC: Scozzafava, MichaelE [Scozzafava.MichaelE@epa.gov]
Subject: Please make 7 copies of this briefing package by 9:45am
Attachments: ELGplanbriefinggross11218final v2.PPTX

Thanks!

Jan Matuszko
Chief, Engineering and Analytical Support Branch
Office of Water
Environmental Protection Agency
(202) 566-1035

Appointment

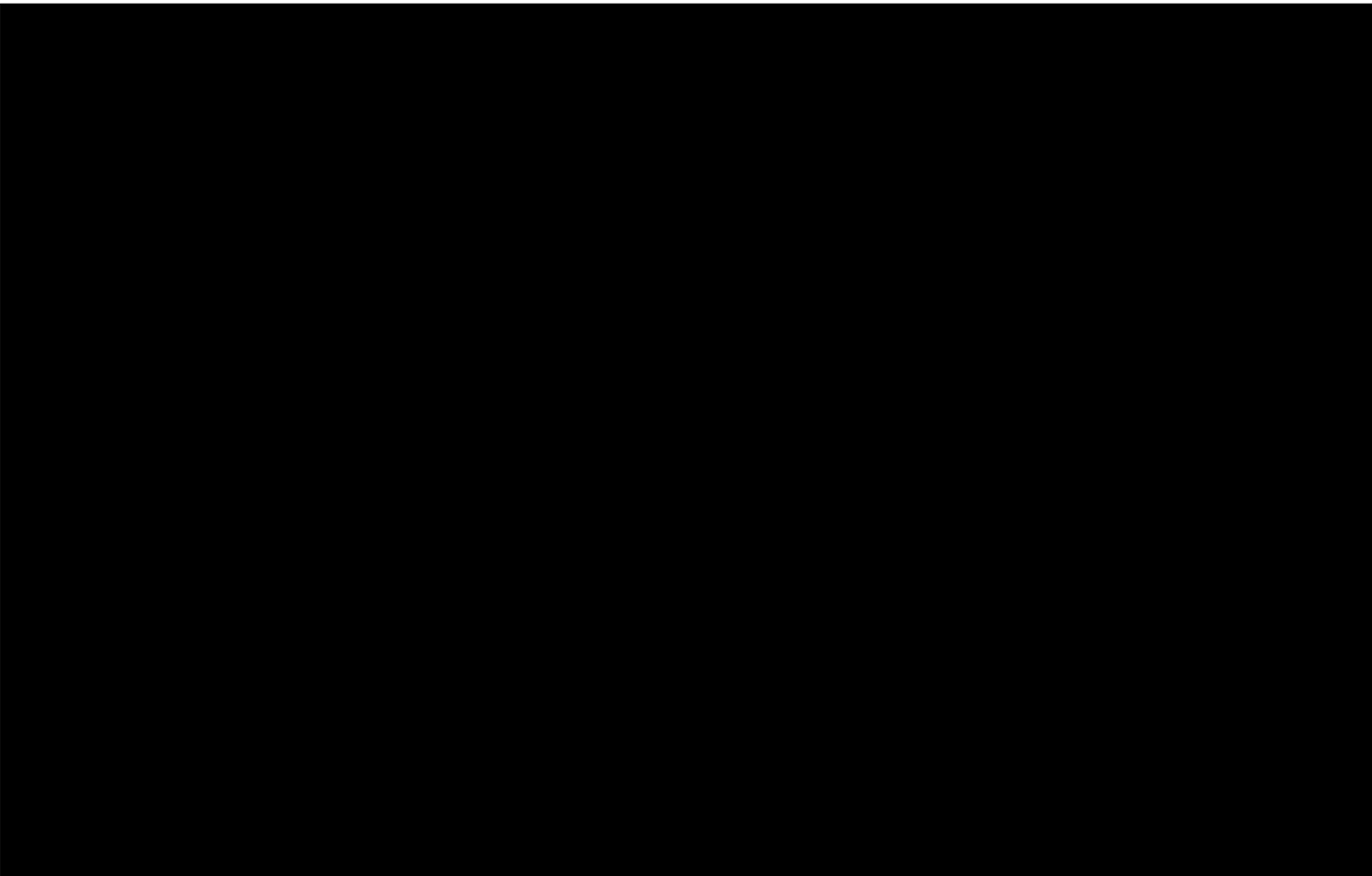
From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 2/14/2019 2:36:55 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Feret, Karen (Milam) [Feret.Karen@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: ELG Planning Team Catch Up
Location: DCRoomWest6231F/DC-CCW-OST
Start: 2/14/2019 3:30:00 PM
End: 2/14/2019 4:00:00 PM
Show Time As: Tentative

We will use the phone for audio

→ [Join Skype Meeting](#)

Trouble Joining? [Try Skype Web App](#)

Join by phone



2. Project Status Updates

- a. Generic ICR/EGIS - need to meet to discuss our goals for this year
- b. Cost Tool/Tech Reviews - receiving deliverables from ERG to review
- c. ELG Database
- d. PFAS
- e. Nutrients

3. New Ideas


- a. PSC noncompliance review/Review of discharge concentrations
- b. Unregulated Contaminant Monitoring Rule
- c. Others?

4. What am I asking you to do

- a. For ongoing projects (esp. oil and gas extraction, steam electric) we've left placeholder saying that the updates will be made current as we get close to publication.
- b. If you have any supporting documents to place in the docket with Prelim Plan 14 they need to be c

Appointment

From: Nagle, Deborah [Nagle.Deborah@epa.gov]
Sent: 8/6/2018 7:48:45 PM
To: Nagle, Deborah [Nagle.Deborah@epa.gov]; Wood, Robert [Wood.Robert@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Flanders, Phillip [Flanders.Phillip@epa.gov]; Parikh, Pooja [Parikh.Pooja@epa.gov]
CC: Lape, Jeff [lape.jeff@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Feret, Karen (Milam) [Feret.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Crawford, Tiffany [Crawford.Tiffany@epa.gov]; Levine, MaryEllen [levine.maryellen@epa.gov]; Neugeboren, Steven [Neugeboren.Steven@epa.gov]
Subject: Preliminary ELG Program Plan 14: Options Selection
Attachments: PrelimPlan14 Briefing_081518.docx
Location: DCRoomWest5233B/DC-CCW-OST
Start: 8/20/2018 5:00:00 PM
End: 8/20/2018 6:00:00 PM
Show Time As: Busy



Appointment

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 3/13/2018 6:03:30 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Muela, Stephen [muela.stephen@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Milam, Karen [Milam.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]
Subject: ELG Planning EPA Weekly Team Meeting
Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting
Location: DCRoomWest6231F/DC-CCW-OST
Start: 3/8/2018 6:00:00 PM
End: 3/8/2018 7:00:00 PM
Show Time As: Tentative

Recurrence: Weekly
every Thursday from 1:00 PM to 2:00 PM

Continuing discussion of ELG Planning

Call In [REDACTED]
Code: [REDACTED]

We will continue to discuss status of projects and the schedule for the next preliminary plan.

Project List:

IWTT
Generic ICR
EGIS
Technology Reviews
HELGA
PFAS Review
Nutrients Review
Engineering Cost Tool
E&EC Detailed Study
Oil and Gas Study
Petroleum Refining Detailed Study
Use of TWFs in ELG Planning
Cost-Effectiveness Review
Economic Screening
Metal Finishing

Appointment

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 3/1/2018 6:39:16 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Muela, Stephen [muela.stephen@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Milam, Karen [Milam.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]
Subject: ELG Planning EPA Weekly Team Meeting
Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting
Location: DCRoomWest6231F/DC-CCW-OST
Start: 3/8/2018 6:00:00 PM
End: 3/8/2018 7:00:00 PM
Show Time As: Busy

Recurrence: Weekly
Occurs every Thursday from 1:00 PM to 2:00 PM effective 3/8/2018 until 6/21/2018.

Continuing discussion of ELG Planning



We will continue to discuss status of projects and the schedule for the next preliminary plan.

Project List:

IWTT
Generic ICR
EGIS
Technology Reviews
HELGA
PFAS Review
Nutrients Review
Engineering Cost Tool
E&EC Detailed Study
Oil and Gas Study
Petroleum Refining Detailed Study
Use of TWFs in ELG Planning
Cost-Effectiveness Review
Economic Screening
Metal Finishing

Message

From: Kim Wagoner [Kim.Wagoner@erg.com]
Sent: 1/30/2019 3:15:44 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Deborah Bartram [deborah.bartram@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Molly McEvoy [Molly.McEvoy@erg.com]
CC: Steve Geil [steve.geil@erg.com]
Subject: RE: 304m weekly calls
Attachments: ELG Planning Punch List_013019.xlsx

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Preliminary Plan 14
 - **Deliberative Process / Ex. 5**
- PFAS
 - **Deliberative Process / Ex. 5**
- Nutrients
 - **Deliberative Process / Ex. 5**
- IWTT
 - **Deliberative Process / Ex. 5**
- ELG Database
 - **Deliberative Process / Ex. 5**
- Generic ICR
 - **Deliberative Process / Ex. 5**
- EGIS
 - **Deliberative Process / Ex. 5**
- Cost tool/technology review
 - **Deliberative Process / Ex. 5**
- EIScreen
 - **Deliberative Process / Ex. 5**
- Environmental issues analysis
- PSC Noncompliance Review
 - **Deliberative Process / Ex. 5**
- Oil and Gas study record items
- Additional ELG planning ideas

Anything else?

Kimberly Wagoner, P.E.
Sr. Environmental Engineer
ERG
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
(O) 703-633-1620
(C) 703-328-3392

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Tripp, Anthony; Molly McEvoy

Cc: Steve Geil

Subject: 304m weekly calls

When: Wednesday, January 30, 2019 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In
Code: [REDACTED]

Message

From: Teresa Medley [Teresa.Medley@erg.com]
Sent: 3/16/2018 5:32:20 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Tripp, Anthony [Tripp.Anthony@epa.gov]
Subject: OWEAD TPR/Invoice for Contract EP-C-17-041 - Pd 02/2018 (WA 0-05) - February 2018
Attachments: Invoice 05_2018 February WA 0-05.pdf; TPR 05_2018 February WA 0-05.pdf

ATTENTION: Information contained in this report is ERG privileged and confidential. The contents of this report shall not be duplicated, used, or disclosed in whole or in part without the permission of Eastern Research Group, Inc.

Please find attached the Technical Progress Report (TPR) and invoice for period of February 2018.

If you have any issues regarding the electronic formatting of this report.

Regards,

Teresa A. Medley, Project Assistant
Eastern Research Group, Inc.
14555 Avion Parkway, Ste, 200
Chantilly, VA 20151-1102
Phone: (703) 633-1655
Fax: (703) 263-7281
teresa.medley@erg.com

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 3/21/2018 2:27:13 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]
CC: Elizabeth Gentile [elizabeth.gentile@erg.com]; Deborah Bartram [deborah.bartram@erg.com]; Kim Wagoner [Kim.Wagoner@erg.com]
Subject: 304m Weekly Call Agenda 3/21
Attachments: Punch List Final 2016 Plan 032118.xlsx

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report

- -
 -
 -
 -

Deliberative Process / Ex. 5

- Preliminary 2018 Plan and Review Report

- -
 -

Deliberative Process / Ex. 5

- IWTT

- -

Deliberative Process / Ex. 5

- EJ

- HELGA

-

Deliberative Process / Ex. 5

- Generic ICR

- -

Deliberative Process / Ex. 5

- EGIS

-

Deliberative Process / Ex. 5

- Cost tool/Pilot technology review

-

Deliberative Process / Ex. 5

- E&EC Study

- 303d Data Request:

Deliberative Process / Ex. 5

Anything else?

Message

From: Kim Wagoner [Kim.Wagoner@erg.com]
Sent: 5/9/2018 2:09:33 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Deborah Bartram [deborah.bartram@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Kimberly Bartell [Kimberly.Bartell@erg.com]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Molly McEvoy [Molly.McEvoy@erg.com]
Subject: RE: 304m weekly calls
Attachments: Punch List Final 2016 Plan 050918.xlsx

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report
 - Deliberative Process / Ex. 5
- Preliminary 2018 Plan and Review Report
 - Deliberative Process / Ex. 5
 - Deliberative Process / Ex. 5
 - Deliberative Process / Ex. 5
 - Deliberative Process / Ex. 5
- IWTT/HELGA
 - Deliberative Process / Ex. 5
- Generic ICR
 - Deliberative Process / Ex. 5
 - Deliberative Process / Ex. 5
- EGIS
 - Deliberative Process / Ex. 5
 - Deliberative Process / Ex. 5
- Cost tool/Pilot technology review
 - Deliberative Process / Ex. 5
- E&EC Study
 - Deliberative Process / Ex. 5
- Environmental issues analysis

Anything else?

Kim Wagoner, P.E.
 Environmental Engineer
 ERG
 14555 Avion Parkway Suite 200
 Chantilly, VA 20151
 703-633-1620

-----Original Appointment-----

From: Kim Wagoner
Sent: Wednesday, May 17, 2017 12:44 PM
To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony; Molly McEvoy
Subject: 304m weekly calls

When: Wednesday, May 9, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call I

Code [REDACTED]

Message

From: Kim Wagoner [Kim.Wagoner@erg.com]
Sent: 4/26/2018 4:05:00 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Deborah Bartram [deborah.bartram@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Kimberly Bartell [Kimberly.Bartell@erg.com]; Tripp, Anthony [Tripp.Anthony@epa.gov]
Subject: RE: 304m weekly calls
Attachments: Punch List Final 2016 Plan 042618.xlsx

Good afternoon! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report
 - **Deliberative Process / Ex. 5**
- Preliminary 2018 Plan and Review Report
 - PFAS **Deliberative Process / Ex. 5**
 - MPP and Pulp Nutrient Preliminary Category Reviews – **Deliberative Process / Ex. 5**
 - Nutrient modeling **Deliberative Process / Ex. 5**
- IWTT
 - **Deliberative Process / Ex. 5**
- HELGA
 - **Deliberative Process / Ex. 5**
- Generic ICR
 - **Deliberative Process / Ex. 5**
- EGIS
 - **Deliberative Process / Ex. 5**
- Cost tool/Pilot technology review
 - **Deliberative Process / Ex. 5**
- E&EC Study
 - **Deliberative Process / Ex. 5**
- Environmental issues analysis

Anything else?

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

When: Thursday, April 26, 2018 3:00 PM-4:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

Moving our meeting to accommodate Phillip's training today. Hopefully this time works for everyone.

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In [REDACTED]

Code: [REDACTED]

Message

From: Kim Wagoner [Kim.Wagoner@erg.com]
Sent: 4/18/2018 2:45:13 PM
To: Deborah Bartram [deborah.bartram@erg.com]; Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Kimberly Bartell [Kimberly.Bartell@erg.com]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]
Subject: RE: 304m weekly calls
Attachments: Punch List Final 2016 Plan 041818.xlsx

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report

-
-
-
-
-

Deliberative Process / Ex. 5

- Preliminary 2018 Plan and Review Report

-
-
-

Deliberative Process / Ex. 5

- IWTT

-

Deliberative Process / Ex. 5

- HELGA

-
-

Deliberative Process / Ex. 5

- Generic ICR

-
-

Deliberative Process / Ex. 5

- EGIS

-

Deliberative Process / Ex. 5

- Cost tool/Pilot technology review

-

Deliberative Process / Ex. 5

- E&EC Study

-

Deliberative Process / Ex. 5

- Environmental issues analysis

Anything else?

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Deborah Bartram; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

When: Wednesday, April 18, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In [REDACTED]

Code: [REDACTED]

Message

From: Teresa Medley [Teresa.Medley@erg.com]
Sent: 4/18/2018 2:35:07 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Tripp, Anthony [Tripp.Anthony@epa.gov]
Subject: OWEAD TPR/Invoice for Contract EP-C-17-041 - Pd 03/2018 (WA 0-05) - March 2018
Attachments: Invoice 06_2018 March WA 0-05.pdf; TPR 06_2018 March WA 0-05.pdf

ATTENTION: Information contained in this report is ERG privileged and confidential. The contents of this report shall not be duplicated, used, or disclosed in whole or in part without the permission of Eastern Research Group, Inc.

Please find attached the Technical Progress Report (TPR) and invoice for period of March 2018.

If you have any issues regarding the electronic formatting of this report.

Regards,

Teresa A. Medley, Project Assistant
Eastern Research Group, Inc.
14555 Avion Parkway, Ste, 200
Chantilly, VA 20151-1102
Phone: (703) 633-1655
Fax: (703) 263-7281
teresa.medley@erg.com

Message

From: Kim Wagoner [Kim.Wagoner@erg.com]
Sent: 4/4/2018 1:57:05 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Deborah Bartram [deborah.bartram@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Kimberly Bartell [Kimberly.Bartell@erg.com]; Tripp, Anthony [Tripp.Anthony@epa.gov]
Subject: RE: 304m weekly calls
Attachments: Punch List Final 2016 Plan 040218.xlsx

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report

-
-
-
-
-
-
-

Deliberative Process / Ex. 5

- Preliminary 2018 Plan and Review Report

-
-
-

Deliberative Process / Ex. 5

- IWTT

-

Deliberative Process / Ex. 5

- HELGA

-

Deliberative Process / Ex. 5

- Generic ICR

-
-
-
-

Deliberative Process / Ex. 5

- EGIS

-
-

Deliberative Process / Ex. 5

- Cost tool/Pilot technology review

-

Deliberative Process / Ex. 5

- E&EC Study

Anything else?

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

When: Wednesday, April 4, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: 2 [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In [REDACTED]

Code: [REDACTED]

Message

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 3/8/2018 5:10:20 PM
To: Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Feret, Karen (Milam) [Feret.Karen@epa.gov]; Muela, Stephen [muela.stephen@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]
Subject: Draft Record Index
Attachments: 304m 2016 Final Plan Record Index_021518.pdf

Flag: Follow up

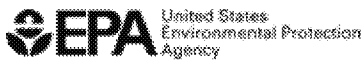
ELG Planning Team,

The draft record index that ERG has been maintaining for the 2016 ELG Program Plan is attached to this email, and also available [here](#) on the [ELG Planning SharePoint Site](#). Please review the index and consider the entries for your projects. (Note that this is from Feb 15th). I'm aware that this does not yet include references for miscellaneous food and beverage, the metal finishing study report, or CWT. Please work with ERG or me to make any updates/changes to the record. ***Please aim to have this done in a month (April 5).***

Thanks!

Phillip Flanders, Ph.D., P.E.

Environmental Engineer
Engineering and Analysis Division
Office of Science and Technology
Office of Water



Mail Code 4303T
(202) 566-8323
www.epa.gov/eg

Appointment

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 3/29/2018 4:20:35 PM
To: Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Feret, Karen (Milam) [Feret.Karen@epa.gov]; Muela, Stephen [muela.stephen@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]

Subject: ELG Planning EPA Weekly Team Meeting
Attachments: ELG Revision and Study Dates.xlsx
Location: DCRoomWest6231F/DC-CCW-OST

Start: 3/29/2018 5:00:00 PM
End: 3/29/2018 6:00:00 PM
Show Time As: Tentative

Recurrence: Weekly
every Thursday from 1:00 PM to 2:00 PM

I will show a table with most recent ELG years that OMB asked us to prepare (attached).

Continuing discussion of ELG Planning

C [REDACTED]
C [REDACTED]

We will continue to discuss status of projects and the schedule for the next preliminary plan.

Project List:

IWTT
Generic ICR
EGIS
Technology Reviews
HELGA
PFAS Review
Nutrients Review
Engineering Cost Tool
E&EC Detailed Study
Oil and Gas Study
Petroleum Refining Detailed Study
Use of TWFs in ELG Planning
Cost-Effectiveness Review
Economic Screening
Metal Finishing

Message

From: Kim Wagoner [Kim.Wagoner@erg.com]
Sent: 7/18/2018 2:49:40 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Deborah Bartram [deborah.bartram@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Molly McEvoy [Molly.McEvoy@erg.com]
Subject: RE: 304m weekly calls
Attachments: ELG Planning Punch List_071818.xlsx

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Preliminary 2018 Plan
- PFAS

-

Deliberative Process / Ex. 5

-

- Nutrients

-

-

-

-

Deliberative Process / Ex. 5

- IWTT

-

Deliberative Process / Ex. 5

- Limits Tool

-

Deliberative Process / Ex. 5

- Generic ICR

-

-

Deliberative Process / Ex. 5

- EGIS

-

Deliberative Process / Ex. 5

- Cost tool/Pilot technology review

-

-

-

Deliberative Process / Ex. 5

- EIScreen

-

Deliberative Process / Ex. 5

- Environmental issues analysis

Anything else?

Kimberly Wagoner, P.E.
Sr. Environmental Engineer
ERG
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
(O) 703-633-1620

(C) 703-328-3392

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Tripp, Anthony; Molly McEvoy

Subject: 304m weekly calls

When: Wednesday, July 18, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In [REDACTED]

Code: [REDACTED]

Message

From: Kim Wagoner [Kim.Wagoner@erg.com]
Sent: 8/1/2018 2:45:13 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Deborah Bartram [deborah.bartram@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Molly McEvoy [Molly.McEvoy@erg.com]
Subject: RE: 304m weekly calls
Attachments: ELG Planning Punch List_080118.xlsx; Budget Tracking for EPA_August 2018.xlsx

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Preliminary 2018 Plan
 - **Deliberative Process / Ex. 5**
- PFAS
 - **Deliberative Process / Ex. 5**
- Nutrients
 - **Deliberative Process / Ex. 5**
- IWTT
 - **Deliberative Process / Ex. 5**
- Limits Tool
 - **Deliberative Process / Ex. 5**
- Generic ICR
 - **Deliberative Process / Ex. 5**
- EGIS
 - **Deliberative Process / Ex. 5**
- Cost tool/Pilot technology review
 - **Deliberative Process / Ex. 5**
- EJScreen
 - **Deliberative Process / Ex. 5**
- Environmental issues analysis
- Budget (see attached spreadsheet)

Kimberly Wagoner, P.E.

Sr. Environmental Engineer
ERG
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
(O) 703-633-1620
(C) 703-328-3392

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Tripp, Anthony; Molly McEvoy

Subject: 304m weekly calls

When: Wednesday, August 1, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call I
Code [REDACTED]

Message

From: Tripp, Anthony [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BA279511E3194F179D560EE49997166F-TRIPP, ANTH]
Sent: 5/31/2018 5:06:14 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]
CC: Damico, Brian [Damico.Brian@epa.gov]
Subject: RE: Quick Turnaround! OS briefing package
Attachments: Prelim 18 ELG Plan Briefing_053018 +at.docx

Phillip,

Updates in the attached (track change mode).

Tony

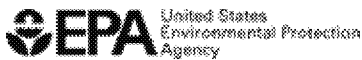
From: Flanders, Phillip
Sent: Thursday, May 31, 2018 10:58 AM
To: Pritts, Jesse <Pritts.Jesse@epa.gov>; Tripp, Anthony <Tripp.Anthony@epa.gov>; Lewis, Samantha <Lewis.Samantha@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>
Cc: Damico, Brian <Damico.Brian@epa.gov>
Subject: Quick Turnaround! OS briefing package
Importance: High

I need some help with project status updates for the Options Selection briefing for the Preliminary 2018 ELG Plan. Please provide brief descriptions of your projects that would fit into this briefing. It is really only intended to give a status update to senior management. We are briefing Rob next week, so **please send me descriptions by Tuesday (6/5)**. We are aiming to have the Options Selection meeting with Dave Ross in July.

Thank you,

Phillip Flanders, Ph.D., P.E.

Environmental Engineer
Engineering and Analysis Division
Office of Science and Technology
Office of Water



Mail Code 4303T
(202) 566-8323
www.epa.gov/eg

Message

Sent: 3/22/2019 3:30:50 PM
To: Damico, Brian [Damico.Brian@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]
Subject: Draft Nutrients Report
Attachments: Draft Nutrients Report_2019.03.22.docx

Brian and Sam,
I've attached the latest version of the nutrients report.

Message

Sent: 3/19/2019 1:08:39 PM
To: Lewis, Samantha [Lewis.Samantha@epa.gov]
Subject: Attached Nutrients supporting document
Attachments: Draft Nutrients Report_102618_sw_comments.docx

Samantha,

I've attached the draft nutrient support document that has more details than the 304(m) Plan. We should be getting a revised version from ERG soon, but there are not many changes from this version.

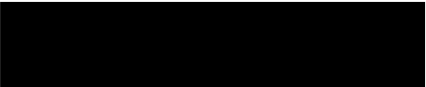
--Steve--

Appointment

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 3/1/2018 6:39:13 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Siddiqui, Ahmar [Siddiqui.Ahmar@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Muela, Stephen [muela.stephen@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]; Cuff, Jalyse [cuff.jalyse@epa.gov]; Strassler, Eric [Strassler.Eric@epa.gov]; Zomer, Jessica [Zomer.Jessica@epa.gov]; Benware, Richard [Benware.Richard@epa.gov]; Lewis, Samantha [Lewis.Samantha@epa.gov]; Pritts, Jesse [Pritts.Jesse@epa.gov]; Milam, Karen [Milam.Karen@epa.gov]; Matuszko, Jan [Matuszko.Jan@epa.gov]
Subject: ELG Planning EPA Weekly Team Meeting
Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting; Canceled: ELG Planning EPA Weekly Team Meeting
Location: DCRoomWest6231F/DC-CCW-OST
Start: 3/8/2018 6:00:00 PM
End: 3/8/2018 7:00:00 PM
Show Time As: Tentative

Recurrence: Weekly
every Thursday from 1:00 PM to 2:00 PM

Continuing discussion of ELG Planning


We will continue to discuss status of projects and the schedule for the next preliminary plan.

Project List:

IWTT
Generic ICR
EGIS
Technology Reviews
HELGA
PFAS Review
Nutrients Review
Engineering Cost Tool
E&EC Detailed Study
Oil and Gas Study
Petroleum Refining Detailed Study
Use of TWFs in ELG Planning
Cost-Effectiveness Review
Economic Screening
Metal Finishing

Appointment

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 2/28/2018 4:52:50 PM
To: Kimberly Bartell [Kimberly.Bartell@erg.com]; Eva Knoth [eva.knoth@erg.com]; Kim Wagoner [Kim.Wagoner@erg.com]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Iti Patel [Iti.Patel@erg.com]; Sara Bossenbroek [Sara.Bossenbroek@erg.com]
BCC: Cha_Shenandoah_Conf_Room [Cha_Shenandoah_Conf_Room@erg.com]
Subject: 304m Nutrient Review: Model & MPP/Pulp Status
Location: Cha_Shenandoah_Conf_Room

Start: 3/16/2018 1:00:00 PM
End: 3/16/2018 3:00:00 PM
Show Time As: Busy

Recurrence: (none)

Moving to 3/16 accommodate a change in schedule.

Meeting to discuss the total nitrogen nutrient model and the status of the meat and poultry and pulp reviews.

Chantilly office, Shenandoah conference room (Kim B will call in).

GoTo meeting link (if needed):

<https://global.gotomeeting.com/join/901810565>

Appointment

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 12/6/2017 2:51:49 PM
To: Kimberly Bartell [Kimberly.Bartell@erg.com]; Kim Wagoner [Kim.Wagoner@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Sara Bossenbroek [Sara.Bossenbroek@erg.com]

Subject: MPP/Pulp Nutrient Review Status Update
Location: Conference Call: 888-231-2017, 9714193#

Start: 12/8/2017 6:00:00 PM
End: 12/8/2017 7:00:00 PM
Show Time As: Busy

Recurrence: (none)

304m MPP/Pulp Nutrients Status Meeting

Fri, Dec 8, 2017 1:00 PM - 2:00 PM EST

Please join my meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/820089413>

Join the conference call:



Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 4/19/2018 3:01:08 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: 304m weekly calls

Ok, sounds good – we'll do that. Thank you!

Kim

From: Whitlock, Steve <Whitlock.Steve@epa.gov>
Sent: Thursday, April 19, 2018 8:21 AM
To: Kimberly Bartell <Kimberly.Bartell@erg.com>
Subject: RE: 304m weekly calls

Next week is fine, so you can complete the list of steps and send together.
--Steve--

From: Kimberly Bartell [<mailto:Kimberly.Bartell@erg.com>]
Sent: Wednesday, April 18, 2018 11:00 AM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Subject: RE: 304m weekly calls

Hi Steve,

I wanted to check in quickly on the nutrient slides/model since you won't be on the call. We have the slides almost ready to go and you should have those by the end of the week. The models are also almost finished, we can send you the databases for all the parameters by the end of the week. However, if you would also like to have a list of steps to go along with each database, we would need to finish those up and send everything over next week. Do you have a preference?

Thanks!
Kim

From: Whitlock, Steve <Whitlock.Steve@epa.gov>
Sent: Wednesday, April 18, 2018 10:56 AM
To: Kim Wagoner <Kim.Wagoner@erg.com>; Deborah Bartram <Deborah.Bartram@erg.com>; Flanders, Phillip <Flanders.Phillip@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Cuff, Jalyse <cuff.jalyse@epa.gov>; Tripp, Anthony <Tripp.Anthony@epa.gov>
Subject: RE: 304m weekly calls

I won't be on the call today—I have a training class.
--Steve--

From: Kim Wagoner [<mailto:Kim.Wagoner@erg.com>]
Sent: Wednesday, April 18, 2018 10:45 AM
To: Deborah Bartram <deborah.bartram@erg.com>; Flanders, Phillip <Flanders.Phillip@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Elizabeth Gentile <elizabeth.gentile@erg.com>; Kimberly

Bartell <Kimberly.Bartell@erg.com>; Cuff, Jalyse <cuff.jalyse@epa.gov>; Tripp, Anthony <Tripp.Anthony@epa.gov>

Subject: RE: 304m weekly calls

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report

- -
 -
 -
 -

Deliberative Process / Ex. 5

- Preliminary 2018 Plan and Review Report

- -
 -

Deliberative Process / Ex. 5

- IWTT

-

Deliberative Process / Ex. 5

- HELGA

- -

Deliberative Process / Ex. 5

- Generic ICR

- -

Deliberative Process / Ex. 5

- EGIS

-

Deliberative Process / Ex. 5

- Cost tool/Pilot technology review

-

Deliberative Process / Ex. 5

- E&EC Study

-

Deliberative Process / Ex. 5

- Environmental issues analysis

Anything else?

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Deborah Bartram; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

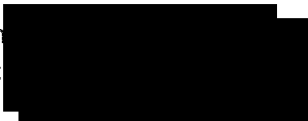
When: Wednesday, April 18, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In

Code:



Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 4/18/2018 3:00:22 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: 304m weekly calls

Flag: Follow up

Hi Steve,

I wanted to check in quickly on the nutrient slides/model since you won't be on the call. We have the slides almost ready to go and you should have those by the end of the week. The models are also almost finished, we can send you the databases for all the parameters by the end of the week. However, if you would also like to have a list of steps to go along with each database, we would need to finish those up and send everything over next week. Do you have a preference?

Thanks!
 Kim

From: Whitlock, Steve <Whitlock.Steve@epa.gov>
Sent: Wednesday, April 18, 2018 10:56 AM
To: Kim Wagoner <Kim.Wagoner@erg.com>; Deborah Bartram <Deborah.Bartram@erg.com>; Flanders, Phillip <Flanders.Phillip@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Cuff, Jalyse <cuff.jalyse@epa.gov>; Tripp, Anthony <Tripp.Anthony@epa.gov>
Subject: RE: 304m weekly calls

I won't be on the call today—I have a training class.
 --Steve--

From: Kim Wagoner [mailto:Kim.Wagoner@erg.com]
Sent: Wednesday, April 18, 2018 10:45 AM
To: Deborah Bartram <deborah.bartram@erg.com>; Flanders, Phillip <Flanders.Phillip@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Elizabeth Gentile <elizabeth.gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Cuff, Jalyse <cuff.jalyse@epa.gov>; Tripp, Anthony <Tripp.Anthony@epa.gov>
Subject: RE: 304m weekly calls

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report

-
-
-
-
-

Deliberative Process / Ex. 5

- Preliminary 2018 Plan and Review Report

- PFAS – Deliberative Process / Ex. 5
- MPP and Pulp Nutrient Preliminary Category Reviews – Deliberative Process / Ex. 5
- Deliberative Process / Ex. 5
- Nutrient modeling Deliberative Process / Ex. 5
- Deliberative Process / Ex. 5

- IWTT
 - o Deliberative Process / Ex. 5
- HELGA
 - o Deliberative Process / Ex. 5
- Generic ICR
 - o Deliberative Process / Ex. 5
- EGIS
 - o Deliberative Process / Ex. 5
- Cost tool/Pilot technology review
 - o Deliberative Process / Ex. 5
- E&EC Study
 - o Deliberative Process / Ex. 5
- Environmental issues analysis

Anything else?

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Deborah Bartram; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

When: Wednesday, April 18, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In
Code: [REDACTED]

Message

From: Iti Baxi [Iti.Baxi@erg.com]
Sent: 3/22/2019 1:10:02 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Molly McEvoy [Molly.McEvoy@erg.com]
Subject: Draft Nutrients Review Report
Attachments: ATT00001.txt; Draft Nutrients Report_2019.03.22.docx

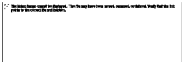
Hi Steve,

Attached, please find the report describing EPA's review of nutrients in industrial wastewater discharges. Thank you for your thorough review! We replied to and incorporated your comments and changes. We made additional minor changes to ensure consistency between the report and Preliminary Plan 14. Currently, all changes are in track changes to facilitate your review. However, please let us know if you would prefer to see a clean version. We are working to organize and finalize references.

Please let us know if you have any questions or would like to discuss any changes.

Thank you,
Iti Baxi

Iti Baxi | Environmental Engineer
Eastern Research Group, Inc.
14555 Avion Parkway,
Chantilly, VA 20151
(703) 633-1675 (Office)
(614) 361-5097 (Cell)



Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 1/11/2018 6:20:03 PM
To: Pierard, Kevin [pierard.kevin@epa.gov]; Bauer, Candice [bauer.candice@epa.gov]; Azevedo, George [azevedo.george@epa.gov]
CC: Whitlock, Steve [Whitlock.Steve@epa.gov]; Elizabeth Gentile [elizabeth.gentile@erg.com]
Subject: RE: Questions on Region 5 Meat and Poultry and Pulp Facilities
Attachments: Region 5_Pulp and MPP_01112018.docx; MPP and Pulp Fac_R5_011118.xlsx

Kevin, Candice, and George,

Thank you for your time on the phone this morning. I've attached the list of questions that we talked through, along with an excel spreadsheet listing the facilities that we are requesting permits and fact sheets for. The facilities are listed in the first tab titled "Permits Requested". The other two tabs, "MPP DMR Data" and "Pulp DMR Data", provide the full list of facilities and discharges that we reviewed in Region 5 from discharge monitoring report data.

I've also included a paragraph summarizing our review, below. Please let us know if you have any other questions or concerns. As discussed, it would be great if you could get back to us within a month or so.

Thank you!

Kim

Kim Bartell

Environmental Engineer
Eastern Research Group, Inc.
517-515-1721

ERG is working with EPA Office of Water, Engineering and Analysis Division, to conduct its annual review of the existing effluent limitations guidelines, as required by the Clean Water Act. The purpose of the annual review is to gather information on current discharges from various industry categories to determine whether or not revisions to or development of effluent guidelines may be appropriate. To support the review of existing effluent guidelines, we are gathering information on nutrient discharges from meat and poultry and pulp and paper facilities. Specifically, we are trying to determine how nutrient discharges are generated and handled at these facilities, including treatment prior to discharge to surface water (i.e., direct discharger) or publicly owned treatment works (POTW) (i.e., indirect discharger). Copies of facility permits and fact sheets, along with responses to our additional questions, will help EPA complete its review of nutrient discharges from meat and poultry and pulp and paper facilities.

From: Pierard, Kevin [mailto:pierard.kevin@epa.gov]
Sent: Monday, January 8, 2018 4:47 PM
To: Kimberly Bartell <Kimberly.Bartell@erg.com>
Cc: Whitlock, Steve <Whitlock.Steve@epa.gov>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Bauer, Candice <bauer.candice@epa.gov>; Azevedo, George <azevedo.george@epa.gov>
Subject: RE: Questions on Region 5 Meat and Poultry and Pulp Facilities

Kim – we would like to have a call with you on this to better understand the request. On our end this would involve Candice Bauer and George Azevedo (cc'ed on this email) and myself. Available times (Central time) are Jan 11 from 10 – 12; Jan 15 from 10 – 12; Jan 16 from 9 – 10; or Jan 18 from 9 – 11. Let us know what works for you.

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Monday, January 08, 2018 1:49 PM
To: Pierard, Kevin <pierard.kevin@epa.gov>

Cc: Yedavalli, Sreedevi <yedavalli.sreedevi@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>; Elizabeth Gentile <elizabeth.gentile@erg.com>

Subject: RE: Questions on Region 5 Meat and Poultry and Pulp Facilities

Mr. Pierard:

I wanted to confirm that you received my email below regarding meat and poultry and pulp and paper facilities in your region. I've also copied Sreedevi Yedavalli on this email if he would be a better contact for our request. Please let us know.

Thank you,
Kim

From: Kimberly Bartell

Sent: Monday, December 18, 2017 1:55 PM

To: pierard.kevin@epa.gov

Cc: Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Whitlock, Steve <Whitlock.Steve@epa.gov>

Subject: Questions on Region 5 Meat and Poultry and Pulp Facilities

Dear Mr. Pierard:

Eastern Research Group, Inc. (ERG), a contractor for EPA Office of Water, Engineering and Analysis Division (EAD), is e-mailing you to request information on meat and poultry and pulp and paper facilities in your region. See below for further background.

Specifically, ERG is working with Phillip Flanders and Steve Whitlock of EAD to conduct its annual review of the existing effluent limitations guidelines, as required by the Clean Water Act. The purpose of the annual review is to gather information on current discharges from various industry categories to determine whether or not revisions to or development of effluent guidelines may be appropriate. EAD will discuss this review and the results in its Preliminary 2018 Effluent Guidelines Program Plan, scheduled for publication in the Federal Register in 2018 (see <https://www.epa.gov/eg> for further information).

To support the review of existing effluent guidelines, we are gathering information on nutrient discharges from meat and poultry and pulp and paper facilities. We would like to discuss nutrient discharges from these industries as well as request copies of NPDES permits and fact sheets for a few facilities. Please let us know your availability to set up a short call to discuss this information.

If you have any questions in the meantime, please call me at (517) 515-1721. If you would like to speak directly with EAD regarding this request, you can contact Steve Whitlock by phone at (202) 566-1541 or by email: whitlock.steve@epa.gov.

Thank you,
Kim

Kim Bartell

Environmental Engineer

Eastern Research Group, Inc.

517-515-1721

Questions for EPA Region 5: Pulp and Paper and Meat and Poultry Nutrient Discharges

January 11, 2018

As part of the 2017 annual review, EPA is reviewing nutrient discharges from both the Pulp and Paper (40 CFR Part 430) and Meat and Poultry (40 CFR Part 432) industries. Specifically, EPA is trying to determine how nutrient discharges are generated and handled at these facilities, including treatment prior to discharge to surface water (i.e., direct discharger) or a publicly owned treatment works (POTW) (i.e., indirect discharger). EPA included the following list of questions to help guide the review. Any information you can provide specific to EPA Region 5 will support EPA's review of these industries.

Pulp and Paper

1. What is the approximate number of pulp and paper mills in EPA Region 5? If possible, provide a breakout by type of discharger (i.e., direct or indirect).
2. What processes or operations at pulp and paper mills contribute to nutrient (i.e., nitrogen or phosphorus) discharges?
3. What typical wastewater treatment technologies or best management practices are used to control the wastewater discharges of nutrients from pulp and paper mills?
4. Are nutrients added to biological wastewater treatment that may be contributing to these nutrient discharges? If so, which nutrients are added?
5. Are any mills implementing nutrient optimization techniques or installing tertiary treatment to meet permit limits? Are there specific treatment technologies used to achieve lower nutrient permit limits? Are any mills discharging to impaired waters or waters with TMDLs, and what are they doing to meet the permit limits?
6. Do most mills have permit limits for nutrient parameters? What is driving the development of nutrient permit limits at pulp mills? How are permit limits for nutrients developed for these mills?
7. Is there any evidence that pulp and paper mills are contributing to nutrient discharges from POTWs?

Meat and Poultry

1. What is the approximate number of meat and poultry facilities in EPA Region 5? If possible, provide a breakout by type of discharger (i.e., direct or indirect).
2. What typical wastewater treatment technologies or best management practices are used to control the wastewater discharges of nutrients from meat and poultry facilities?
3. How are nutrient permit limits for meat and poultry facilities developed (total nitrogen, total phosphorus, ammonia, nitrate, etc.)? What are the permit limits based on (water quality criteria, national ELGs, technology-based, do they account for mixing zones, etc)? Why are they significantly lower than the current national ELG limitations?
4. Do facilities have any issues meeting nutrient permit limits? Do all facilities have total nitrogen limits in place?
5. Are seasonal changes affecting biological nitrification a concern with wastewater treatment at meat and poultry facilities?

6. Is there any evidence that meat and poultry facilities are contributing to nutrient discharges from POTWs?
7. Are any meat and poultry facilities discharging to impaired waters or waters with TMDLs, and what are they doing to meet the permit limits?

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 2/28/2018 4:44:10 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: 304m Nutrients Study

Ok great, I'll set up an appointment. Thanks!

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Wednesday, February 28, 2018 11:42 AM
To: Kimberly Bartell <Kimberly.Bartell@erg.com>
Subject: RE: 304m Nutrients Study

That works for me.

--Steve--

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Wednesday, February 28, 2018 11:40 AM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Subject: RE: 304m Nutrients Study

Hi Steve,

How about 9-11am on Monday, March 12th in Chantilly? If that works for you, I'll send an appointment out.

Thanks!

Kim

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Wednesday, February 28, 2018 11:28 AM
To: Kim Wagoner <Kim.Wagoner@erg.com>; Deborah Bartram <Deborah.Bartram@erg.com>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>
Cc: Flanders, Phillip <Flanders.Phillip@epa.gov>
Subject: 304m Nutrients Study

Concerning meeting to discuss the nutrient study; the best days for me are Mondays and Fridays, any time works. I probably need next week to review the database estimation model, sometime after that would be good.

--Steve--.

From: Kim Wagoner [mailto:Kim.Wagoner@erg.com]
Sent: Wednesday, February 28, 2018 9:52 AM
To: Flanders, Phillip <Flanders.Phillip@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Deborah Bartram <deborah.bartram@erg.com>; Elizabeth Gentile <elizabeth.gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Tripp, Anthony <Tripp.Anthony@epa.gov>
Subject: RE: 304m weekly calls

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report
 - o Support for comment responses?

Deliberative Process / Ex. 5

- Preliminary 2018 Plan and Review Report

Deliberative Process / Ex. 5

- Pilot technology review – methodology is largely drafted, waiting to hold cost tool kick-off to determine best way to integrate the efforts
- IWTT
 - EJ
 - HELGA
 - Generic ICR
 - EGIS
 - Cost tool
 - E&EC Study

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

When: Wednesday, February 28, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In [REDACTED]

Code: [REDACTED]

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 2/28/2018 4:39:51 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: 304m Nutrients Study

Hi Steve,

How about 9-11am on Monday, March 12th in Chantilly? If that works for you, I'll send an appointment out.

Thanks!
Kim

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Wednesday, February 28, 2018 11:28 AM
To: Kim Wagoner <Kim.Wagoner@erg.com>; Deborah Bartram <Deborah.Bartram@erg.com>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>
Cc: Flanders, Phillip <Flanders.Phillip@epa.gov>
Subject: 304m Nutrients Study

Concerning meeting to discuss the nutrient study; the best days for me are Mondays and Fridays, any time works. I probably need next week to review the database estimation model, sometime after that would be good.
--Steve--.

From: Kim Wagoner [mailto:Kim.Wagoner@erg.com]
Sent: Wednesday, February 28, 2018 9:52 AM
To: Flanders, Phillip <Flanders.Phillip@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Deborah Bartram <deborah.bartram@erg.com>; Elizabeth Gentile <elizabeth.gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Tripp, Anthony <Tripp.Anthony@epa.gov>
Subject: RE: 304m weekly calls

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report

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Deliberative Process / Ex. 5

- Preliminary 2018 Plan and Review Report

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Deliberative Process / Ex. 5

- Pilot technology review – methodology is largely drafted, waiting to hold cost tool kick-off to determine best way to integrate the efforts
- IWTT
 - Deliberative Process / Ex. 5

- **Deliberative Process / Ex. 5**
- EJ
- HELGA
- Generic ICR
 - **Deliberative Process / Ex. 5**
- EGIS
 - **Deliberative Process / Ex. 5**
- Cost tool
- E&EC Study

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

When: Wednesday, February 28, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In [REDACTED]

Code: [REDACTED]

Message

From: Elizabeth Gentile [Elizabeth.Gentile@erg.com]
Sent: 12/29/2017 2:33:47 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Kimberly Bartell [Kimberly.Bartell@erg.com]; Kim Wagoner [Kim.Wagoner@erg.com]
Subject: Region 4 Contacts - Pulp and MPP
Attachments: Region 4_Pulp and MPP_122817.docx

Steve:

I was able to have a really productive call with EPA Region 4 last week regarding nutrient discharges from pulp mills and meat and poultry facilities. They are currently working on gathering specific NPDES permits, fact sheets, and permit applications from the states for a specific list of facilities but also were interested in helping us with some of the other questions we have. They asked that I send along a list of questions to help focus their review. I compiled the attached list of questions and wanted to make sure you didn't have any comments before sending along!

Thanks!

Liz

Elizabeth A. Gentile
Environmental Engineer
Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
elizabeth.gentile@erg.com
Phone: 484-364-4481

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 12/18/2017 5:42:12 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]; Flanders, Phillip [Flanders.Phillip@epa.gov]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]
Subject: RE: Draft Email to Regions for MPP and Pulp

Steve,

Ok, great. Thank you for the update! We'll hold off on sending anything out until you have a chance to discuss with Phillip.

Thanks,
Kim

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Monday, December 18, 2017 12:39 PM
To: Kimberly Bartell <Kimberly.Bartell@erg.com>; Flanders, Phillip <Flanders.Phillip@epa.gov>
Cc: Kim Wagoner <Kim.Wagoner@erg.com>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>
Subject: RE: Draft Email to Regions for MPP and Pulp

Kim,
I received your email and I think it looks good. I haven't been able to discuss with Phillip yet.
I'll check Phillip's schedule to see if he will be in this week and let you know.
--Steve--

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Monday, December 18, 2017 12:04 PM
To: Flanders, Phillip <Flanders.Phillip@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>
Cc: Kim Wagoner <Kim.Wagoner@erg.com>; Elizabeth Gentile <elizabeth.gentile@erg.com>
Subject: RE: Draft Email to Regions for MPP and Pulp

Phillip and Steve,

I wanted to confirm you received my email below last week. Please let me know if there are any changes before we move forward contacting the regions.

Thank you,
Kim

From: Kimberly Bartell
Sent: Thursday, December 14, 2017 11:23 AM
To: Flanders, Phillip <Flanders.Phillip@epa.gov>; 'Whitlock, Steve' <Whitlock.Steve@epa.gov>
Cc: Kim Wagoner <Kim.Wagoner@erg.com>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>
Subject: Draft Email to Regions for MPP and Pulp

Phillip and Steve,

We drafted the email below to send to EPA regions for the meat and poultry and pulp and paper reviews. We plan to email the NPDES region contacts for Regions 1, 3, and 4 to request to set up a call to discuss nutrient discharges from

meat and poultry and pulp and paper facilities. Please review the email below and let us know if you have any edits or comments before we send them out.

Thank you!
Kim

Dear Contact Name:

Eastern Research Group, Inc. (ERG), a contractor for EPA Office of Water (OW), Engineering and Analysis Division (EAD), is e-mailing you to request information on meat and poultry and pulp and paper facilities in your region. See below for further background.

Specifically, ERG is working with Phillip Flanders and Steve Whitlock of EPA's EAD to conduct its annual review of the existing effluent limitations guidelines, as required by the Clean Water Act. The purpose of the annual review is to gather information on current discharges from various industry categories to determine whether or not revisions to or development of effluent guidelines may be appropriate. EPA EAD will discuss this review and the results in its Preliminary 2018 Effluent Guidelines Program Plan, scheduled for publication in the Federal Register in 2018 (see <https://www.epa.gov/eg> for further information).

To support the review of existing effluent guidelines, we are gathering information on nutrient discharges from meat and poultry and pulp and paper facilities. We would like to discuss nutrient discharges from these industries as well as request copies of NPDES permits and fact sheets for a few facilities. Please let us know your availability to set up a short call to discuss this information.

If you have any questions in the meantime, please call me at (517) 515-1721. If you would like to speak directly with EAD regarding this request, you can contact Steve Whitlock by phone at (202) 566-1541 or by email: whitlock.steve@epa.gov.

Thank you,
Kim

Message

From: Flanders, Phillip [Flanders.Phillip@epa.gov]
Sent: 12/11/2018 5:57:00 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]; Kim Wagoner [Kim.Wagoner@erg.com]; Molly McEvoy [Molly.McEvoy@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]
Subject: FW: ELG Program Plan mark up
Attachments: Draft Prelim Plan 14_2018.11.21bdedits.docx

Brian made some edits to the most recent draft of Prelim Plan 14. Everything seems straightforward to me except some questions/comments in the nutrients section. I know it's short notice, but can we plan to discuss them on tomorrow's 11:00 call?

From: Damico, Brian
Sent: Tuesday, December 11, 2018 12:27 PM
To: Flanders, Phillip <Flanders.Phillip@epa.gov>
Subject: ELG Program Plan mark up

Some edits, do you think we can turn this around by the end of the week? I'd like to try and get it to Rob.

Thanks!

-B

Brian D'Amico
Chief, Technology and Analytical Support Branch
Engineering and Analysis Division
Office of Science and Technology
U.S. Environmental Protection Agency
Washington, DC
[\(202\) 566-1069](tel:(202)566-1069) (Office)
[\(202\) 384-2190](tel:(202)384-2190) (EPA Cell)

Message

From: Kim Wagoner [Kim.Wagoner@erg.com]
Sent: 7/24/2018 12:34:04 PM
To: Flanders, Phillip [Flanders.Phillip@epa.gov]; Whitlock, Steve [Whitlock.Steve@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Deborah Bartram [deborah.bartram@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Tripp, Anthony [Tripp.Anthony@epa.gov]; Molly McEvoy [Molly.McEvoy@erg.com]
Subject: RE: 304m weekly calls
Attachments: ELG Planning Punch List_072418.xlsx

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Preliminary 2018 Plan
- PFAS

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Deliberative Process / Ex. 5

- Nutrients

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Deliberative Process / Ex. 5

- IWTT

-
-

Deliberative Process / Ex. 5

- Limits Tool

-

Deliberative Process / Ex. 5

- Generic ICR

-
-

Deliberative Process / Ex. 5

- EGIS

-

Deliberative Process / Ex. 5

- Cost tool/Pilot technology review

-
-

Deliberative Process / Ex. 5

- EIScreen

-

Deliberative Process / Ex. 5

- Environmental issues analysis

Kimberly Wagoner, P.E.
Sr. Environmental Engineer
ERG
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
(O) 703-633-1620

(C) 703-328-3392

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Tripp, Anthony; Molly McEvoy

Subject: 304m weekly calls

When: Tuesday, July 24, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference [REDACTED]

Moving our meeting to accommodate Phillip's schedule.

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In: [REDACTED]

Code: [REDACTED]

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 12/8/2017 7:22:15 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]; Sara Bossenbroek [Sara.Bossenbroek@erg.com]
Subject: Updated MPP and Pulp Spreadsheets
Attachments: MPP_TRI & DMR Data_120817.xlsx; Pulp_TRI & DMR Data_120817.xlsx; POTW_DMR Nutrient Data_120817.xlsx; Impaired H2O Data and State Count_120817.xlsx

Hi Steve,

As a follow up from our call this afternoon, I wanted to pass along the updated spreadsheets we talked through. The following spreadsheets are attached to this email:

- Updated meat and poultry DMR and TRI data (MPP_TRI & DMR Data_120817.xlsx)
- Updated pulp and paper DMR and TRI data (Pulp_TRI & DMR Data_120817.xlsx)
- POTW DMR nutrient data (POTW_DMR Nutrient Data_120817.xlsx)
- Impaired water analysis results for meat and poultry and pulp and paper (Impaired H2O Data and State Count_120817.xlsx)

As discussed, we'll move forward contacting the regions and gathering/reviewing permits. Please let us know if you have any questions in the meantime.

Thanks,
Kim

Kim Bartell
Environmental Engineer
Eastern Research Group, Inc.
517-515-1721

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 12/6/2017 2:38:10 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]
Subject: RE: MPP/Pulp Nutrients Meeting

Hi Steve,

Let's plan on Friday at 1pm, I'll send an appointment shortly. We'll give a quick update during our 304m call this morning and can discuss in further detail on Friday.

Thanks!
Kim

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Wednesday, December 6, 2017 9:21 AM
To: Kimberly Bartell <Kimberly.Bartell@erg.com>
Cc: Kim Wagoner <Kim.Wagoner@erg.com>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>
Subject: RE: MPP/Pulp Nutrients Meeting

Thanks for the spreadsheets. This week I'm available this afternoon 2-4, Thurs. 8-10, Friday anytime except 2-3.
--Steve--

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Monday, December 04, 2017 12:45 PM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Cc: Kim Wagoner <Kim.Wagoner@erg.com>; Elizabeth Gentile <elizabeth.gentile@erg.com>
Subject: MPP/Pulp Nutrients Meeting

Hi Steve,

We delivered revised MPP/Pulp spreadsheets with the agenda for last week's status call on Wednesday (11/29). These spreadsheets include the breakdown of concentration data by SIC code and graphs of the data. We'd like to set up a call this week with you to discuss the spreadsheets and next steps for MPP/Pulp. Can you let us know some days and times that would work for you?

Thanks!
Kim

Kim Bartell
Environmental Engineer
Eastern Research Group, Inc.
517-515-1721

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 12/4/2017 5:45:00 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]
Subject: MPP/Pulp Nutrients Meeting

Hi Steve,

We delivered revised MPP/Pulp spreadsheets with the agenda for last week's status call on Wednesday (11/29). These spreadsheets include the breakdown of concentration data by SIC code and graphs of the data. We'd like to set up a call this week with you to discuss the spreadsheets and next steps for MPP/Pulp. Can you let us know some days and times that would work for you?

Thanks!

Kim

Kim Bartell
Environmental Engineer
Eastern Research Group, Inc.
517-515-1721

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 1/25/2018 3:46:38 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Elizabeth Gentile [elizabeth.gentile@erg.com]
Subject: Region 1 facility follow up
Attachments: NPDES Permits to Request from Regions.xlsx

Hi Steve,

Following up from our call yesterday, I wanted to clarify the list of facilities in Region 1. The full list of MPP and pulp facilities with DMR nutrient discharges greater than zero can be found in the impaired water data spreadsheet that we delivered on 12/8 (Impaired H2O Data and State Count_120817_delivered.xlsx). This spreadsheet includes a summary of the number of facilities per state.

Deliberative Process / Ex. 5

I've attached an excel file listing the NPDES permits that we are requesting from the regions. We chose facilities from the list of facilities in the impaired water data spreadsheet – selecting some facilities with higher discharges, some with lower discharges, and some that discharge to impaired water bodies, in order to get a variety of facility permits. This may be a useful reference if you talk to other regions, I apologize for not passing this along sooner.

Please let us know if you have any additional questions.

Thanks!
Kim

Message

From: Elizabeth Gentile [Elizabeth.Gentile@erg.com]
Sent: 1/22/2018 7:41:57 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: Region 1 MPP and P&P request

Hi Steve:

I'll get back to Dan with a list of the facilities we're looking into. I'll also try to see if I can talk with him generally about the MPP and Pulp industries in their area.

Thanks!
Liz

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Monday, January 22, 2018 2:31 PM
To: Elizabeth Gentile <Elizabeth.Gentile@erg.com>
Subject: Region 1 MPP and P&P request

Hi Elizabeth,
I received a call from Dan Arsenault (Arseault.Dan@epa.gov 617-918-1562) in Region 1 about our request to discuss facility information. I can't find a list of Region 1 facilities we want info on. Can you get back to Dan with the facilities we would like their help with.

Thanks.

--Steve--

Steve Whitlock, P.E. | Environmental Engineer
U.S. Environmental Protection Agency | Office of Water | Office of Science and Technology
Engineering and Analysis Division (4303T)
1200 Pennsylvania Avenue NW, Washington DC 20460
Phone: 202-566-1541 | fax 202-566-1140 | whitlock.steve@epa.gov

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 3/16/2018 4:48:48 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Iti Patel [Iti.Patel@erg.com]; Kim Wagoner [Kim.Wagoner@erg.com]; Sara Bossenbroek [Sara.Bossenbroek@erg.com]
Subject: Follow up from Nutrients Meeting Today

Hi Steve,

As a follow up from our meeting today, we wanted to send a list of next steps that we talked about during the meeting:

- Develop the TP, nitrate, ammonia, and phosphate nutrient models
- Finish drafting the steps that walk through the model
- Pulp and Paper:

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- MPP:

-

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

- Develop briefing slides on the nutrient review (nutrient model and MPP/Pulp reviews)
- Start drafting report sections for the entire nutrient review

We will get started on these items. Let us know if you have any comments or changes.

Thanks!

Kim

Kim Bartell
Environmental Engineer
Eastern Research Group, Inc.
517-515-1721

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 3/1/2018 3:07:24 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: 304m Nutrients Study

Ok, thank you!

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Thursday, March 1, 2018 9:37 AM
To: Kimberly Bartell <Kimberly.Bartell@erg.com>
Subject: RE: 304m Nutrients Study

Yes, that's fine.

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Thursday, March 01, 2018 8:28 AM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Subject: RE: 304m Nutrients Study

Hi Steve,

I apologize for moving things around, but can you meet on Friday 3/16 from 9-11am instead of 3/12? We had some scheduling issues come up on our end.

Thank you,
Kim

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Wednesday, February 28, 2018 11:42 AM
To: Kimberly Bartell <Kimberly.Bartell@erg.com>
Subject: RE: 304m Nutrients Study

That works for me.
--Steve--

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Wednesday, February 28, 2018 11:40 AM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Subject: RE: 304m Nutrients Study

Hi Steve,

How about 9-11am on Monday, March 12th in Chantilly? If that works for you, I'll send an appointment out.

Thanks!
Kim

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Wednesday, February 28, 2018 11:28 AM

To: Kim Wagoner <Kim.Wagoner@erg.com>; Deborah Bartram <Deborah.Bartram@erg.com>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>
Cc: Flanders, Phillip <Flanders.Phillip@epa.gov>
Subject: 304m Nutrients Study

Concerning meeting to discuss the nutrient study; the best days for me are Mondays and Fridays, any time works. I probably need next week to review the database estimation model, sometime after that would be good.
 --Steve--.

From: Kim Wagoner [mailto:Kim.Wagoner@erg.com]
Sent: Wednesday, February 28, 2018 9:52 AM
To: Flanders, Phillip <Flanders.Phillip@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Deborah Bartram <deborah.bartram@erg.com>; Elizabeth Gentile <elizabeth.gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Tripp, Anthony <Tripp.Anthony@epa.gov>
Subject: RE: 304m weekly calls

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report
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- Preliminary 2018 Plan and Review Report
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- Pilot technology review – methodology is largely drafted, waiting to hold cost tool kick-off to determine best way to integrate the efforts
- IWTT
 -
 -
- EJ
- HELGA
- Generic ICR
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- Cost tool
- E&EC Study

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Kim Wagoner, P.E.
 Environmental Engineer
 ERG
 14555 Avion Parkway Suite 200
 Chantilly, VA 20151

703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

When: Wednesday, February 28, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In [REDACTED]

Code: [REDACTED]

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 3/1/2018 1:28:13 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: 304m Nutrients Study

Hi Steve,

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Sent: Wednesday, February 28, 2018 11:28 AM
To: Kim Wagoner <Kim.Wagoner@erg.com>; Deborah Bartram <Deborah.Bartram@erg.com>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>
Cc: Flanders, Phillip <Flanders.Phillip@epa.gov>
Subject: 304m Nutrients Study

Concerning meeting to discuss the nutrient study; the best days for me are Mondays and Fridays, any time works. I probably need next week to review the database estimation model, sometime after that would be good.
--Steve--.

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Sent: Wednesday, February 28, 2018 9:52 AM
To: Flanders, Phillip <Flanders.Phillip@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Deborah Bartram <deborah.bartram@erg.com>; Elizabeth Gentile <elizabeth.gentile@erg.com>;

Kimberly Bartell <Kimberly.Bartell@erg.com>; Tripp, Anthony <Tripp.Anthony@epa.gov>

Subject: RE: 304m weekly calls

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report

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Deliberative Process / Ex. 5

- Preliminary 2018 Plan and Review Report

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Deliberative Process / Ex. 5

- Pilot technology review – methodology is largely drafted, waiting to hold cost tool kick-off to determine best way to integrate the efforts

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Deliberative Process / Ex. 5

- EJ

- HELGA

- Generic ICR

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Deliberative Process / Ex. 5

- EGIS

-

Deliberative Process / Ex. 5

- Cost tool

- E&EC Study

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
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-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Deborah Bartram; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

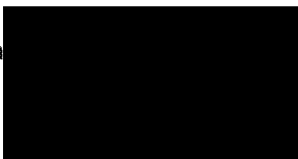
Subject: 304m weekly calls

When: Wednesday, February 28, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference call: 2 [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In
Code:



Message

From: Elizabeth Gentile [Elizabeth.Gentile@erg.com]
Sent: 1/2/2018 9:14:53 PM
To: Wahlstrom-Ramler, Meghan [Wahlstrom-Ramler.Meghan@epa.gov]; Seiwert, Carla [Seiwert.Carla@epa.gov]
CC: Whitlock, Steve [Whitlock.Steve@epa.gov]; Kimberly Bartell [Kimberly.Bartell@erg.com]; Kim Wagoner [Kim.Wagoner@erg.com]
Subject: RE: Region 4 - MPP and Pulp
Attachments: Region 4_Pulp and MPP_01022018.docx

Meghan and Carla:

Thank you for your time on the phone a couple of weeks ago. As we discussed on our call, I put together the following list of questions to learn more about the meat and poultry and pulp and paper industries. If it is helpful to have another call, please let me know – I'm happy to discuss this review with you at any time.

Thank you again for your time and I look forward to working with you.
Happy New Year!

Elizabeth

-----Original Appointment-----

From: Elizabeth Gentile
Sent: Thursday, December 21, 2017 11:04 AM
To: Elizabeth Gentile; Wahlstrom-Ramler, Meghan; Seiwert, Carla
Subject: Region 4 - MPP and Pulp
When: Friday, December 22, 2017 10:00 AM-11:00 AM (UTC-05:00) Eastern Time (US & Canada).
Where: Conf Line Deliberative Process / Ex. 5

Questions for EPA Region 4: Pulp and Paper and Meat and Poultry Nutrient Discharges

January 2, 2018

As part of the 2017 annual review, EPA is reviewing nutrient discharges from both the Pulp and Paper (40 CFR Part 430) and Meat and Poultry (40 CFR Part 432) industries. Specifically, EPA is trying to determine how nutrient discharges are generated and handled at these facilities, including treatment prior to discharge to surface water (i.e., direct discharger) or a publicly owned treatment works (POTW) (i.e., indirect discharger). EPA included the following list of questions to help guide the review. Any information you can provide specific to EPA Region 4 will support EPA's review of these industries.

Pulp and Paper

1. What is the approximate number of pulp and paper mills in EPA Region 4? If possible, provide a breakout by type of discharger (i.e., direct or indirect).
2. What processes or operations at pulp and paper mills contribute to nutrient (i.e., nitrogen or phosphorus) discharges?
3. What typical wastewater treatment technologies or best management practices are used to control the wastewater discharges of nutrients from pulp and paper mills?
4. Are nutrients added to biological wastewater treatment that may be contributing to these nutrient discharges? If so, which nutrients are added?
5. Are any mills implementing nutrient optimization techniques or installing tertiary treatment to meet permit limits? Are there specific treatment technologies used to achieve lower nutrient permit limits? Are any mills discharging to impaired waters or waters with TMDLs, and what are they doing to meet the permit limits?
6. Do most mills have permit limits for nutrient parameters? What is driving the development of nutrient permit limits at pulp mills? How are permit limits for nutrients developed for these mills?
7. Is there any evidence that pulp and paper mills are contributing to nutrient discharges from POTWs?

Meat and Poultry

1. What is the approximate number of meat and poultry facilities in EPA Region 4? If possible, provide a breakout by type of discharger (i.e., direct or indirect).
2. What typical wastewater treatment technologies or best management practices are used to control the wastewater discharges of nutrients from meat and poultry facilities?
3. How are nutrient permit limits for meat and poultry facilities developed (total nitrogen, total phosphorus, ammonia, nitrate, etc.)? What are the permit limits based on (water quality criteria, national ELGs, technology-based, do they account for mixing zones, etc)? Why are they significantly lower than the current national ELG limitations?
4. Do facilities have any issues meeting nutrient permit limits? Do all facilities have total nitrogen limits in place?
5. Are seasonal changes affecting biological nitrification a concern with wastewater treatment at meat and poultry facilities?

6. Is there any evidence that meat and poultry facilities are contributing to nutrient discharges from POTWs?
7. Are any meat and poultry facilities discharging to impaired waters or waters with TMDLs, and what are they doing to meet the permit limits?

Message

From: Elizabeth Gentile [Elizabeth.Gentile@erg.com]
Sent: 1/2/2018 9:12:40 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
Subject: RE: Region 4 Contacts - Pulp and MPP

Thanks Steve! I'll be sending this out shortly.

From: Whitlock, Steve [mailto:Whitlock.Steve@epa.gov]
Sent: Tuesday, January 2, 2018 8:13 AM
To: Elizabeth Gentile <Elizabeth.Gentile@erg.com>
Subject: RE: Region 4 Contacts - Pulp and MPP

Liz,
I've included a few edits to the attached document.
--Steve--

From: Elizabeth Gentile [mailto:Elizabeth.Gentile@erg.com]
Sent: Friday, December 29, 2017 9:34 AM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Cc: Kimberly Bartell <Kimberly.Bartell@erg.com>; Kim Wagoner <Kim.Wagoner@erg.com>
Subject: Region 4 Contacts - Pulp and MPP

Steve:

I was able to have a really productive call with EPA Region 4 last week regarding nutrient discharges from pulp mills and meat and poultry facilities. They are currently working on gathering specific NPDES permits, fact sheets, and permit applications from the states for a specific list of facilities but also were interested in helping us with some of the other questions we have. They asked that I send along a list of questions to help focus their review. I compiled the attached list of questions and wanted to make sure you didn't have any comments before sending along!

Thanks!
Liz

Elizabeth A. Gentile
Environmental Engineer
Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
elizabeth.gentile@erg.com
Phone: 484-364-4481

Message

From: Kimberly Bartell [Kimberly.Bartell@erg.com]
Sent: 4/27/2018 7:28:18 PM
To: Whitlock, Steve [Whitlock.Steve@epa.gov]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Sara Bossenbroek [Sara.Bossenbroek@erg.com]; Iti Patel [Iti.Patel@erg.com]
Subject: Nutrient Briefing Slides
Attachments: 2011 WERF Nutrient Removal Report.pdf; Nutrient Study Briefing Slides_042718.pptx

Hi Steve,

I apologize for the delay in sending you these slides, but attached are briefing slides for the nutrient review. They walk through the nutrient rankings, the analyses performed for the pulp and MPP reviews, and an overview of the nutrient model. There are a few notes to you throughout the slides.

Deliberative Process / Ex. 5

We are finishing up the nutrient models and will be sending those to you next week. Hopefully we can set up a short meeting after that to discuss these slides and the models.

Please let us know if you have any questions in the meantime.

Have a great weekend!
Kim

Kim Bartell
Environmental Engineer
Eastern Research Group, Inc.
517-515-1721

Message

From: Whitlock, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F42409F3FD6D4DFF99D18ED7F128B6E1-WHITLOCK, STEVE]
Sent: 4/19/2018 12:21:11 PM
To: Kimberly Bartell [Kimberly.Bartell@erg.com]
Subject: RE: 304m weekly calls

Next week is fine, so you can complete the list of steps and send together.

--Steve--

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Wednesday, April 18, 2018 11:00 AM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Subject: RE: 304m weekly calls

Hi Steve,

I wanted to check in quickly on the nutrient slides/model since you won't be on the call. We have the slides almost ready to go and you should have those by the end of the week. The models are also almost finished, we can send you the databases for all the parameters by the end of the week. However, if you would also like to have a list of steps to go along with each database, we would need to finish those up and send everything over next week. Do you have a preference?

Thanks!
Kim

From: Whitlock, Steve <Whitlock.Steve@epa.gov>
Sent: Wednesday, April 18, 2018 10:56 AM
To: Kim Wagoner <Kim.Wagoner@erg.com>; Deborah Bartram <Deborah.Bartram@erg.com>; Flanders, Phillip <Flanders.Phillip@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Elizabeth Gentile <Elizabeth.Gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Cuff, Jalyse <cuff.jalyse@epa.gov>; Tripp, Anthony <Tripp.Anthony@epa.gov>
Subject: RE: 304m weekly calls

I won't be on the call today—I have a training class.
--Steve--

From: Kim Wagoner [mailto:Kim.Wagoner@erg.com]
Sent: Wednesday, April 18, 2018 10:45 AM
To: Deborah Bartram <deborah.bartram@erg.com>; Flanders, Phillip <Flanders.Phillip@epa.gov>; Whitlock, Steve <Whitlock.Steve@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Elizabeth Gentile <elizabeth.gentile@erg.com>; Kimberly Bartell <Kimberly.Bartell@erg.com>; Cuff, Jalyse <cuff.jalyse@epa.gov>; Tripp, Anthony <Tripp.Anthony@epa.gov>
Subject: RE: 304m weekly calls

Good morning! Attached is the updated punch list. In addition for the agenda we have:

- Final 2016 Plan and Review Report

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Deliberative Process / Ex. 5

- **Deliberative Process / Ex. 5**
- Preliminary 2018 Plan and Review Report
 - **Deliberative Process / Ex. 5**
- IWTT
 - **Deliberative Process / Ex. 5**
- HELGA
 - **Deliberative Process / Ex. 5**
- Generic ICR
 - **Deliberative Process / Ex. 5**
- EGIS
 - **Deliberative Process / Ex. 5**
- Cost tool/Pilot technology review
 - **Deliberative Process / Ex. 5**
- E&EC Study
 - **Deliberative Process / Ex. 5**
- Environmental issues analysis

Anything else?

Kim Wagoner, P.E.
Environmental Engineer
ERG
14555 Avion Parkway Suite 200
Chantilly, VA 20151
703-633-1620

-----Original Appointment-----

From: Kim Wagoner

Sent: Wednesday, May 17, 2017 12:44 PM

To: Kim Wagoner; Deborah Bartram; Flanders, Phillip; Whitlock.steve@Epa.gov; Born, Tom; Elizabeth Gentile; Kimberly Bartell; cuff.jalyse@epa.gov; Tripp, Anthony

Subject: 304m weekly calls

When: Wednesday, April 18, 2018 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Via conference [REDACTED]

All, we have to make a change to our call-in information for our weekly calls. Please note the new number below.

Call In :
Code: [REDACTED]

Message

From: Whitlock, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F42409F3FD6D4DFF99D18ED7F128B6E1-WHITLOCK, STEVE]
Sent: 1/2/2018 1:12:37 PM
To: Elizabeth Gentile [Elizabeth.Gentile@erg.com]
Subject: RE: Region 4 Contacts - Pulp and MPP
Attachments: Region 4_Pulp and MPP_122817sdw.docx

Liz,
I've included a few edits to the attached document.
--Steve--

From: Elizabeth Gentile [mailto:Elizabeth.Gentile@erg.com]
Sent: Friday, December 29, 2017 9:34 AM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Cc: Kimberly Bartell <Kimberly.Bartell@erg.com>; Kim Wagoner <Kim.Wagoner@erg.com>
Subject: Region 4 Contacts - Pulp and MPP

Steve:

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Thanks!
Liz

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Phone: 484-364-4481

Appointment

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Sent: 12/6/2017 2:55:12 PM
To: Kimberly Bartell [Kimberly.Bartell@erg.com]
Subject: Accepted: MPP/Pulp Nutrient Review Status Update
Location: Conference C [REDACTED]
Start: 12/8/2017 6:00:00 PM
End: 12/8/2017 7:00:00 PM
Show Time As: Busy

Message

From: Whitlock, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F42409F3FD6D4DFF99D18ED7F128B6E1-WHITLOCK, STEVE]
Sent: 12/6/2017 2:21:21 PM
To: Kimberly Bartell [Kimberly.Bartell@erg.com]
CC: Kim Wagoner [Kim.Wagoner@erg.com]; Elizabeth Gentile [elizabeth.gentile@erg.com]
Subject: RE: MPP/Pulp Nutrients Meeting

Thanks for the spreadsheets. This week I'm available this afternoon 2-4, Thurs. 8-10, Friday anytime except 2-3.
--Steve--

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Monday, December 04, 2017 12:45 PM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Cc: Kim Wagoner <Kim.Wagoner@erg.com>; Elizabeth Gentile <elizabeth.gentile@erg.com>
Subject: MPP/Pulp Nutrients Meeting

Hi Steve,

We delivered revised MPP/Pulp spreadsheets with the agenda for last week's status call on Wednesday (11/29). These spreadsheets include the breakdown of concentration data by SIC code and graphs of the data. We'd like to set up a call this week with you to discuss the spreadsheets and next steps for MPP/Pulp. Can you let us know some days and times that would work for you?

Thanks!
Kim

Kim Bartell
Environmental Engineer
Eastern Research Group, Inc.
517-515-1721

Message

From: Whitlock, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F42409F3FD6D4DFF99D18ED7F128B6E1-WHITLOCK, STEVE]
Sent: 1/22/2018 7:30:59 PM
To: Elizabeth Gentile [elizabeth.gentile@erg.com]
Subject: Region 1 MPP and P&P request

Hi Elizabeth,

I received a call from Dan Arsenault (Arsenault.Dan@epa.gov 617-918-1562) in Region 1 about our request to discuss facility information. I can't find a list of Region 1 facilities we want info on. Can you get back to Dan with the facilities we would like their help with.

Thanks.

--Steve--

.....
Steve Whitlock, P.E. | Environmental Engineer
U.S. Environmental Protection Agency | Office of Water | Office of Science and Technology
Engineering and Analysis Division (4303T)
1200 Pennsylvania Avenue NW, Washington DC 20460
Phone: 202-566-1541 | fax 202-566-1140 | whitlock.steve@epa.gov
.....

Message

From: Whitlock, Steve [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F42409F3FD6D4DFF99D18ED7F128B6E1-WHITLOCK, STEVE]
Sent: 3/16/2018 5:52:43 PM
To: Kimberly Bartell [Kimberly.Bartell@erg.com]
CC: Iti Patel [Iti.Patel@erg.com]; Kim Wagoner [Kim.Wagoner@erg.com]; Sara Bossenbroek [Sara.Bossenbroek@erg.com]
Subject: RE: Follow up from Nutrients Meeting Today

Kim,
This looks good. Thanks.
--Steve--

From: Kimberly Bartell [mailto:Kimberly.Bartell@erg.com]
Sent: Friday, March 16, 2018 12:49 PM
To: Whitlock, Steve <Whitlock.Steve@epa.gov>
Cc: Iti Patel <Iti.Patel@erg.com>; Kim Wagoner <Kim.Wagoner@erg.com>; Sara Bossenbroek <Sara.Bossenbroek@erg.com>
Subject: Follow up from Nutrients Meeting Today

Hi Steve,

As a follow up from our meeting today, we wanted to send a list of next steps that we talked about during the meeting:

- Develop the TP, nitrate, ammonia, and phosphate nutrient models
- Finish drafting the steps that walk through the model
- Pulp and Paper:

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Deliberative Process / Ex. 5

- MPP:

-

Deliberative Process / Ex. 5

- Develop briefing slides on the nutrient review (nutrient model and MPP/Pulp reviews)
- Start drafting report sections for the entire nutrient review

We will get started on these items. Let us know if you have any comments or changes.

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Kim Bartell
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